

GRAIN DEALERS JOURNAL

Published on the 10th and 25th of each month in the interest of progressive Grain Dealers

ol. XXXI. No. 4.

CHICAGO, ILL., AUGUST 25, 1913.

PRICE \$1.50 PER YEAR
TEN CENTS PER COPY

McKENNA & RODGERS

COMMISSION MERCHANTS

SHIPPERS CORN OATS

60 Board of Trade

Chicago

DO IT TODAY

Get in touch with

A LIVE GRAIN HOUSE

Write to

E. STEEN & BRO., Baltimore, Md.

STEELE-BRIGGS

SEED CO., LTD.

TORONTO, ONT.

SEEDS

ALSIKE, RED CLOVER, TIMOTHY, CAN.
BLUE GRASS, FLAX, OATS
CORRESPONDENCE SOLICITED

P. B. & C. C. MILES

Established 1875 Incorporated 1910

PEORIA, ILL.

Handling Grain on Commission
Our Specialty

James E. Bennett & Co.

400-405 Postal Telegraph Bldg., CHICAGO

Grain Shipments and Future
Orders Solicited.

ST. LOUIS

PEORIA

211 Chamber of Commerce

324 So. Washington St.

Tyng, Hall & Co.

GRAIN COMMISSION

Correspondence
Solicited

Peoria, Ill.

The Ady & Crowe Mercantile Co.

WHOLESALE GRAIN AND HAY

1900 Fifteenth St., DENVER, COLORADO

Minneapolis Seed Co.

SEEDS

Minneapolis - - - Minnesota

WHEAT

CORN



RYE

J. A. Manger & Co.

216-218 Chamber of Commerce, Baltimore, Md.

Langenberg Bros. & Co.

ST. LOUIS, MO.

Grain and Hay Commission

Branch Office, New Orleans, La.

Goffe & Carkener

Grain Commission

St. Louis

Kansas City

COURTEEN SEED CO.

RED-WHITE-ALSIKE-ALFALFA

Clovers, Timothy

MILLETS, GRASSES, ETC. GRAIN BAGS

Milwaukee, Wis.

THE GALE BROS. CO.

CINCINNATI, OHIO

WANT YOUR BUSINESS

GRAIN—HAY—FEED

TRY US

DUDLEY M. IRWIN BARLEY

1117 Chamber of Commerce Building,
BUFFALO, N. Y.



Elevator Buckets

¶ Salem Buckets fill easily, carry maximum load, and empty clean. Notice rounded corners and general shape. The best Elevator Bucket for all kinds of Grain and Mill Products. ¶ Made in more sizes and gauges than any other Bucket on the market. We fill orders promptly from the large stock which we carry.

Send for Catalog No. 34.

H. W. Caldwell & Son Company

NEW YORK, Fulton Bldg., Hudson Terminal, 50 Church St.

CHICAGO, 17th St. and Western Ave.

Directory of the Grain Trade

In Organized Markets Only Members of the Local Grain Exchange Will Be Listed.

AMARILLO, TEX.

Early Grain & Elvtr. Co., whol. grain, hay, seeds.
Plains Grain Co., E. S. Bladell, grain, field seeds.

ATCHISON, KANS.

Blair Elevator Co., receivers and shippers.*

ATLANTA, GA.

Gregg & Son, J., wholesale brokers, grain, hay.*

AUGUSTA, GA.

Lamb & Hollingsworth, flour, grain, provisions.*

BALTIMORE, MD.

Chamber of Commerce Members.
Blackburn & Co., C. P., grain recvrs., exporters.*
Clark & Sons, Thos. S., grain receivers.*
Dennis & Co., grain merchants.*
England & Co., Chas., grain, hay.*
Fahey & Co., John T., gr'n receivers & expts.*
Gill & Fisher, receivers and shippers of grain.*
Hammond, Snyder & Co., Inc., receivers, expts.*
Hax & Co., G. A., grain, hay, seeds.*
Herzer & Son, Gustav, grain, seeds, hay.*
Jones & Co., H. C., grain and hay.*
Lederer Bros., grain receivers.*
Manger & Co., J. A., grain, seeds, hay.*
Robinson & Jackson, commission merchants.*
Steen & Bro., E., hay and grain.*

BINGHAMTON, N. Y.

Empire Grain & Eltr. Co., grain feed shippers

BLOOMINGTON, ILL.

Baldwin Grain Co., brokers.
Hawenwinkle Grain Co., grain brokers.
O'Neill & Gyles, grain brokers.
Slick & Co., L. E., buyers and shippers.

BOSTON, MASS.

Chamber of Commerce Members.
Benzaguin, Matthew D., grain brokerage, com'n.*
McLean-Alpine Co., The, hay and grain.
Ranlet Co., The D. W., grain and mill feed.

BOURBON, IND.

Delp Grain Co., E. E., grain and mill feed.

BUFFALO, N. Y.

Corn Exchange Members.
Alder-Stofer Grain Co., grain commission.*
Buffalo Cereal Co., grain.*
Burns Grain Co., grain commission.
Churchill Grain & Seed Co., buyers, shippers.*
Electric Elevators & Mfg. Co., recvrs. and shippers.*
Harold, A. W., grain, barley a specialty.
Heathfield & Co., Inc., W. G., strictly commission.
Heinold, John G., grain and feed.
Irwin, Dudley M., barley.
Pratt & Co., grain commission.*
Ratcliffe, S. M., consignments solicited.
Spann Grain Co., O. G., gn. com., bar'y a spec'y.
Townsend-Ward Co., grain commission.*
Urmston Grain Co., grain commission.*

CAIRO, ILL.

Board of Trade Members.
Antrim & Co., H. S., receivers and shippers.*
Halliday Elevator Co., corn, oats.*
Hastings Co., Samuel, receivers and shippers.
Magee Grain Co., grain.*
Thistlewood & Co., grain and hay.

CEDAR RAPIDS, IA.

Cedar Rapids Grain Co., receivers and shippers.

CHAMPAIGN, ILL.

Baldwin & Co., H. I., grain brokers.
Edwards, A. H., grain broker.
Johnson & Co., C. E., grain brokers.

CHICAGO, ILL.

Board of Trade Members.
Armour Grain Co., grain buyers.*
Bailey & Co., E. W., grain commis'n merchants.*
Barrell & Co., Finley, grain, stocks, provisions.*
Bennett & Co., Jas. E., commission merchants.*
Calvin & Co., Wm. H., grain brokers.
Carhart Code Harwood Co., grain commission.*
Cowan Co., W. S., commission, grain and seeds.
Crighton & Lasker, grain commission.*
Dole & Co., J. H., grain and seeds.*
Fitch & Co., Walter, W. K. Mitchell, Mgr.*
Fraser Co., W. A., grain commission.*
Freeman & Co., Henry H., grain, hay, straw.
Gerstenberg & Co., grain, seeds.*
Holt & Co., Lowell, commission, grain and seeds.
Hooper Grain Co., receivers, shippers.*
Lamson Bros. & Co., consignments solicited.*
McKenna & Rodgers, commission merchants.*
Merritt Co., W. H., grain, seeds.*

CHICAGO—Continued.

The Moses Rothschild Co., general grain com'n.
Nash-Wright Grain Co., grain, prov., seeds.*
Norris & Co., grain merchants.*
Nye & Jenks Gr. Co., commission merchants.
Paynter, H. M., grain and field seeds.
Perrine & Co., W. H., grain and commission.
Press & Co., W. G., grain, provisions, stocks, etc.
Quaker Oats Co., buyers of grain.
Quinn, Geo. B., grain commission.
Rang & Co., Henry, grain commission.
Re Qua Brothers, grain commission.*
Rogers & Bro., H. W., grain and seeds.
Rogers Grain Co., buyers and shippers.
Rosenbaum Bros., receivers, shippers.*
Rosenbaum Grain Co., J., receivers and shippers.
Rumsey & Company, grain commission.*
Sawyers Grain Co., grain commission.*
Schiffelin & Co., P. H., commission.*
Shaffer & Co., J. C., buyers and shippers.*
Sincere & Co., Chas., N. Y. stocks, Chicago grain.
Somers, Jones & Co., grain and field seeds.*
Thayer & Co., Clarence H., commission.*
Uppdike Commission Co., grain commission.*
Vehon & Co., M. L., grain commission.
Wagner Co., E. W., receivers and shippers.*
Ware & Leland, grain seeds.

CINCINNATI, O.

Chamber of Commerce Members.
Allen & Munson, grain, hay, flour.*
Bender, A., grain, brokerage & com'n.
Blumenthal, Max, grain, barley a specialty.*
Brown & Co., W. L., consignments.
Cincinnati Grain Co., commission merchants.
Collins & Co., grain commission.*
Ellis & Fleming, grain and hay.*
Emrick Co., C. S., grain and hay.
Fenger Grain Co., grain, hay and feed.*
Fitzgerald Bros. Co., strictly commission.*
Gale Bros. Co., grain, hay, feed.*
Gray, Ralph, receiver and shipper.
Howard, H. W., grain and hay.
Kramer, W. H., grain and hay.
Maguire & Co., grain, hay commission.
McQuillan & Co., grain, hay and feed.*
Perla Bros., millers and grain merchants.*
Richter Gr. Co., grain, hay, flour, feed.
Schmidt & Walker Co., white corn goods.*
Stafford & Gale, grain and hay.
Trent Mfg. Co., receivers and shippers.
Union Gr. & Hay Co., grain buyers & commiss'n.*
Van Luenen & Co., Paul, consignments.*
Van Luenen Co., The, grain and hay.
Weber, W. H., grain, hay and feed.
Whitcomb & Root, grain, hay, millfeed.

CLEVELAND, O.

Abel Bros., hay, grain, feed.
Bailey, E. I., grain and millfeed.*
Bennett, W. A., receivers grain, hay & millfeed.
Cleveland Grain Co., The, receivers and shippers.*
Gates Elevator Co., receivers and shippers.
Kemper, J. F., grain, hay and millfeed.
Sheets Bros.' Eltr. Co., The, grain, hay, straw.
Shepard, Clark & Co., grain, hay and straw.
Star Eltr. Co., receivers, grain, hay, straw.
Strauss & Co., H. M., grain, seeds, hay straw.*

COLORADO SPRINGS, COLO.

Seldomridge Grain Co., grain dealers.

CRAWFORDSVILLE, IND.

Crabbs-Reynolds-Taylor Co., grain, seeds.*

CUMBERLAND, MD.

Marley & Co., grain and hay distributors.

DANVILLE, ILL.

McConnell, R. B., grain dealer.

DAVENPORT, IOWA.

Interior Grain Co., buyers and sellers of grain.

DECATUR, ILL.

Baldwin & Co., H. I., grain brokers.*
Kizer & Co., grain brokerage.

DENVER, COLO.

Board of Trade Members.
Ady & Crowe Mercantile Co., grain, hay.*
Crescent Mill & Eltr. Co., flour and grain.
Longmont Farmers Mill & Eltr. Co., flour, grain.
Scott, E. E., broker grain, cottonseed meal, bags.

DES MOINES, IA.

Des Moines Elevator Co., receivers and shippers.
Lockwood Grain Co., E. A., grain & millfeeds.*
Squires Grain Co., S. E., grain merchants.*
Taylor & Patton Co., buyers and shippers.*
Wright & McWhinney, grain com'n merchants.

DETROIT, MICH.

Board of Trade Members.
Caughy & Carran, grain and seeds.
Dumont, Roberts & Co., receivers, shippers.*
H. M. Hobart & Son, grain, hay, millfeeds.*
Lapham & Co., J. S., recvrs. & shippers of grain.*
McLane, Swift & Co., grain buyers.*
Simmons & Co., F. J., grain, hay and straw.*

DULUTH, MINN.

Johnson-Olson Gr. Co., grain commission.

EVANSVILLE, IND.

Small & Co., W. H., field seeds, grain and hay.

FORT WAYNE, IND.

Egley-Doan Eltr. Co., grain, hay and seeds.

FORT WORTH, TEX.

Grain and Cotton Exchange Members.
King-Douglas, W., grain, feedstuff & brokerage.
Kolp, E. R. & D. C., grain and seed dealers.*
Moore-Seaver Grain Co., receivers and shippers.*
Werner Wilkens Grain Co., receivers & shippers.

FOSTORIA, O.

Fostoria Grain Co., receivers & shippers of grain.*

FRANKFORT, IND.

Frank & Co., Wm., grain brokers.*

GALVESTON, TEX.

Board of Trade Members.
Fordtran, J. S., grain commission merchant.
Jockusch, Davidson & Co., grain, hay, exporters.
Wisrodt Grain Co., wholesale grain eltr., facilities.

GREENVILLE, O.

Grubbs Grain Co., E. A., track buyers.*

INDIANAPOLIS, IND.

Board of Trade Members.
Bassett Grain Co., grain merchants.*
Boyd, Bert A., Indianapolis commission man.*
Capitol Grain Co., grain commission.
Hoosier Grain Co., commission & brokerage.
Jordan & Montgomery Co., wholesale grain.
Klaney Grain Co., H. E., receiver and shipper.*
Minor, B. B., grain consignments solicited.
Mutual Grain Co., grain commission.*
Reliance Grain Co., recvrs. & ship's hay & grain.
Shotwell & Co., C. A., grain, flour, feed.
Witt, Frank A., grain commission & brokerage.

JACKSON, MICH.

Sheldon, Willis E., track buyer of grain.*
Stockbridge Elevator Co., grain, beans, hay.

KANSAS CITY, MO.

Board of Trade Members.
Barrett Grain Co., grain commission.
Benton Grain Co., screenings and seeds.
Carlisle Commission Co., hay specialists.
Christopher & Co., B. C., commiss'n & kaffir corn.*
Clay Grain Co., F. B., grain commission.*
Croysdale Grain Co., grain commission.
Davis & Co., A. C., grain commission.*
Denton Kuhn, Gr. Co., consignments.*
Ernst-Davis Grain Co., commission.*
Fisher Corn Co., E. D., grain commission.*
Fisher Gr. Co., C. V., receivers & shippers of gr.*
Fox-Miller Grain Co., receivers and shippers.
Goffe & Carkner, recvrs. and shprs. of grain.*
Gregg Grain Co., Mason, commission merchants.
Hinds Grain Co., The, receivers, shippers.
Hoebel Grain Co., grain commission.
Houston Carpenter Gr. Co., cash & futures, grain.
Logan Bros. Grain Co., grain commission.*
Moore-Seaver Grain Co., receivers and shippers.*
Moore-Lawless Grain Co., grain receivers.*
Morrison Grain Co., grain merchants.
Nicholson Gr. Co., W. S., grain commission.*
Norris Grain Co., grain merchants and exporters.
Roaben-Cary Grain Co., grain, flour, millfeed.*
Russell Grain Co., hay our specialty.
Shannon Gr. Co., consignments solicited.*
Steele & Co., H. H., grain and seeds.*
Terminal Elevators, receivers, shippers.*
Thresher Fuller Grain Co., grain commission.*
Vanderslice-Lynds Co., grain commission.*

KENTLAND, IND.

McCray, Morrison & Co., track buyers.*

KOKOMO, IND.

Farnsworth, F. H., grain broker.

LA FAYETTE, IND.

Heinmiller, F. G., track buyer of grain.

LITTLE ROCK, ARK.

Gordy Co., C. L., grain and millfeed brokers.

LOUISVILLE, KY.

Board of Trade Members.
Bingham-Hewett Grain Co., recrs. & shprs. grain.*
Brandels & Son, A., recvrs. & shippers of grain.*
Callahan & Sons, receivers and shippers of grain.
Edinger & Co., grain, hay, flour.
Farmer & Son, Oscar, hay and grain.
Menefee & Co., R. H., grain and hay.
Schuff & Co., A. C., grain and hay.
Thomson & Co., W. A., corn, oats and rye.
Verhoff & Co., H., receivers and shippers grain.*
Zorn & Co., S., grain.*

LYNCHBURG, VA.

Moon-Taylor Co., grain and hay brokers.

Directory of the Grain Trade

In Organized Markets Only Members of the Local Grain Exchange Will Be Listed.

MEMPHIS, TENN.

Merchants Exchange Members.

Buxton, E. E., broker and commission merchant.
Davis & Andrews Co., grain dealers.*
Horton & Co., J. B., grain & hay commission.
Jones, Lee D., grain & hay commission.*
Scruggs-Robinson Co., brokers & com. merchants.
U. S. Feed & Grain Co., grain, hay, millfeed.*
Webb & Maury, grain and hay.*
Wyatt, E. W., grain, hay and millfeed broker.

MERCER, MO.

Alley Grain Co., oats, corn, wheat, seeds.*

MIDDLE POINT, OHIO.

Pollock, H. G., track buyer of grain, hay, straw.

MILWAUKEE, WIS.

Chamber of Commerce Members.

Armstrong Co., W. J., hay merchants.
Bartlett & Son Co., L., grain commission.*
Donahue-Stratton Co., grain dealers.*
Ellsworth, B. G., grain consignments.
Hadden Co., E. G., grain commission mchts.*
Johnstone & Templeton, grain commission.
Kamm Company, P. C., barley and rye.*
Lauer & Co., J. V., grain commission.
Owen & Co., O. C., grain commission merchants.
Owen & Brother Co., grain commission.
Rankin & Co., M. G., shippers, corn, oats, barley.
Rialto Elev. Co., grain receivers & shippers.
Stacks & Kellogg, grain merchants.

MINNEAPOLIS, MINN.

Chamber of Commerce Members.

Benson-Newhouse-Stabeck Co., grain commission.*
Cargill Commission Co., grain commission.
Carter, Sammis & Co., grain commission.
Dalrymple, Wm., grain commission, receiver.*
Davies & Co., F. M., grain commission.*
Fraser-Smith Co., grain commission.*
Getchell-Tanton Co., grain commission.
Gould Grain Co., grain merchants.
Hankinson & Co., H. L., grain commission.
Marfield Grain Co., grain commission.*
McCaull Dinsmore Co., consignments solicited.*
McDonald & Wyman, grain commission.*
Minnesota Grain Co., grain commission.*
Nichols & Taylor, grain consignments.
Poehler Company, H., grain commission.*
Quinn Shepherdson Co., grain commission.*
Riheldaffer Co., J. H., grain com's'n merchants.*
Stair, Christensen & Timmerman, gr. commission.*
Turle & Co., grain commission.
Van Dusen-Harrington Co., grain merchants.*
Welch Co., E. L., grain commission.*
Wernli-Anderson Co., grain commission.
Wyman & Co., C. C., grain commission.*
Zimmerman, Otto A., barley specialist.*

MONTGOMERY, ALA.

Dahlberg Brokerage Co., Inc., brokers and dealers.

NASHVILLE, TENN.

Rose, Caswell E., corn, oats, hay, feedstuffs.

NEWARK, N. J.

Smith & Wallace Co., J. C., receivers, shippers.

NEW CASTLE, PA.

Hamilton, C. T., hay, straw, grain, millfeed, pro.

NEW ORLEANS, LA.

McInnis, A. H., broker, grain, hay, cottonseed pdts.

NEW YORK CITY.

Produce Exchange Members.

Cushing & Brandt, grain commission, buyers.*
Forbell & Co., L. W., grain commission.*
Kusch & Schwartz Co., oats, corn, wheat.
Robinson, G. B., Jr., grain and millfeeds.

NORFOLK, VA.

Cofer & Co., J. H., wholesale grain.
LeGrand & Burton, grain and hay brokers.*

NORTH MANCHESTER, IND.

Kinsey Bros., grain, hay & seed merchants.

OKLAHOMA CITY, OKLA.

Hanna Grain Co., grain, hay, seeds, alfalfa meal.
Kolp, E. R. & D. C., grain and seed dealers.

OMAHA, NEB.

Grain Exchange Members.

Beal-Vincent Grain Co., receivers, shippers.*
Cavers Elevator Co., receivers and shippers.*
Crowell Elevator Co., receivers, shippers.*
Holmquist Elevator Co., receivers and shippers.*
Huntley, E. E., broker.
Imperial Mfg. Co., grain consignments.
McCaull-Dinsmore Co., grain.
Merriam Commission Co., consignments.
Nebraska-Iowa Gr. Co., consignments a specialty.*
Omaha Elevator Co., receivers, shippers.*
Roberts Gr. Co., Geo. A., grain dealers.
Saunders-Westrand Co., receivers and shippers.
Taylor Grain Co., brokers.*
Thresher, E. R., grain broker.
United Grain Co., grain commission.
Udlike Grain Co., grain commission.
Weekes Grain Co., receivers and shippers of grain.
Welsh Grain Co., grain and hay commission.

PEORIA, ILL.

Board of Trade Members.

Arnold & Co., F. W., grain consignments solicited.
Bowman & Co., Geo. L., grain commission.
Buckley, Pursey & Co., grain and seeds.*
Dewey & Sons, W. W., grain commission.*
Feltman, C. H., grain commission.
Grier & Co., T. A., grain commission.
Miles, P. B. & C. C., grain commission.*
Mueller Grain Co., receivers and shippers.*
Rumsey, Moore & Co., grain receivers.*
Tyng, Hall & Co., grain commission.*

PHILADELPHIA, PA.

Commercial Exchange Members.

Baringer, M. F., grain and millfeed.*
Brazier, W. P., Mgr., Finley Barrel & Co.
Delp Grain Co., E. E., grain and millfeeds.*
Dunwoody Co., E. L., flour, grain, feed.*
Lemont & Son, E. K., hay, grain, millfeed.*
Miller & Sons, L. F., grain, seeds, hay.*
Pultz & Co., J. B., grain and feed.*
Richardson Bros., grain, flour, millfeeds.*
Richardson, Edw. M., grain and feeds.
Standard Hay & Grain Co., grain, hay & straw.
Stites, A. Judson, grain and millfeed.

PIQUA, OHIO.

Kress Co., The Harry W., trk. buyers, gr. & hay.*

PITTSBURG, PA.

Members Grain and Hay Exchange.

Armstrong & Clark, grain, hay & millfeed.*
Austen Bros., grain, hay and millfeed.*
Elwood & Co., R. D., hay and grain.*
Foster, C. A., grain, hay, feed.*
Geidel & Dickson, grain and hay.*
Hardman & Heck, grain, hay and millfeed.*
Heck & Co., W. F., grain, hay and millfeed.
Herb Bros. & Martin, grain and hay.*
Mahood Hay & Grain Co., hay, corn & oats.*
McCaffrey's Sons Co., Daniel, hay, gr'n, millfeed.*
McCague, R. S., grain, hay.*
Smith & Co., J. W., grain, hay, feed.*
Stewart, D. G., & Geidel, grain, hay and feed.*
Walton Co., Sam'l, grain and hay.*

PONTIAC, ILL.

Ralbach, Paul A., grain buyer, all markets.
North & Rowe, grain brokers.

PUEBLO, COLO.

McClelland Mc't'l I. & R. Co., grain, hay & feed.

RICHMOND, VA.

Adams Gr. & Prov. Co., grain, feeds, seeds.
Beveridge & Co., S. T., grain, hay, feeds, seeds.
Fairbank & Co., S. G., grain, hay, seeds.
Southern Brokerage Co., grain, hay, feeds & seeds.

SAGINAW, MICH.

Carr Co., Henry W., grain, hay, beans, seeds.

SAN ANTONIO, TEXAS.

Prescott & Co., whol. grain & cottonseed pdts.

SIOUX CITY, IOWA.

Board of Trade Members.

Fields & Slaughter Co., grain, hay and feed.
Flanley Grain Co., grain commission.
Iowa-Dakota Gr. Co., grain & com. merchants.

SIOUX FALLS, SO. DAK.

German Grain Co., buyers and shippers.

ST. JOSEPH, MO.

Gordon Comm. Co., T. P., grain dlr. and broker.*
Musterman & Co., Wm., grain, hay, rcvrs., shprs.

ST. LOUIS, MO.

Merchants Exchange Members.

Connor Bros. & Co., grain.*
Elmore Schultz Gr. Co., rcvrs. & shprs. grain.
Goffe & Carkner Co., grain commission.*
Graham & Martin Grain Co., grain commission.
Green Commission Co., W. L., grain.*
Kennedy Grain Co., receivers, shippers.
Langenberg Bros. & Co., grain commission.*
Morton & Co., grain, hay and seeds.
Nanson Commission Co., grain commission.*
Picker & Beardsley Com. Co., grain & grass seed.*
Powell & O'Rourke, receivers, shippers.*
Toberman, Mackey & Co., consignments solicited.

TERRE HAUTE, IND.

Kuhn & Co., Paul, receivers and shippers.*

TIPTON, IND.

Urmston Grain Co., receivers and shippers.

TOLEDO, O.

Produce Exchange Members.

Central Grain Co., The, buyers and shippers.
Goemann Grain Co., grain buyers.*
King & Co., C. A., grain, clover, seed.*
Paddock-Hodge Co., The, receivers & shippers.
Southworth & Co., grain and seeds.*
Wickenhiser & Co., John, rcvrs. & shippers of gr.
Zahn & Co., J. F., grain, seeds.*

TOPEKA, KAN.

Norton Grain Co., milling wheat a specialty.

TRINIDAD, COLO.

Bancroft-Marty Feed & Produce Co., hay & grain.

WASHINGTON, D. C.

Craig, J. V., hay and grain broker.*

WICHITA, KANS.

Board of Trade Members.

Woodside-Smith Gr. Co., receivers & shippers.

WINFIELD, KANS.

Hayes & Co., John, wholesale grain.
Head Grain Co., grain, millfeed, seeds.

*Members Grain Dealers National Association.

BALTIMORE CHAMBER OF COMMERCE MEMBERS

CHAS. ENGLAND & CO.

Commission Merchants

GRAIN :: HAY :: SEEDS

308-310 Chamber of Commerce, BALTIMORE

CONSIGNMENTS A SPECIALTY

JOHN T. FAHEY & CO.

Commission Merchants

Grain Receivers and Shippers

In the Market every day

Remember us on Rye BALTIMORE, MD.

Established 1882

G. A. HAX & CO.

COMMISSION

Grain, Hay and Seeds

445 North Street BALTIMORE, MD.

CAIRO BOARD OF TRADE MEMBERS

Magee Grain Company
GRAIN

Delta Elevator CAIRO, ILL.

CERTIFICATE OF WEIGHT

FORM 88 is designed for making a certified statement of the weight of a car of grain and the condition of the car. It has spaces for Date, Car No., Initial, Date Loaded, Number of Pounds, Kind of Grain, Seal Record, Firm Name and Weigher. These forms are duplicating and are check bound, 75 originals and 75 duplicates in each book. The original forms are printed on bond paper and are machine perforated so that they will tear out readily. The duplicates remain in the book as permanent record. The certificates are numbered in duplicate. Size 8½x4½ inches. Price with four sheets of carbon paper, 75 cents.

GRAIN DEALERS JOURNAL, - -

315 So. La Salle Street, Chicago, Ill.

Halliday Elevator Company
CAIRO, ILLS.

Branch Office: 620 PIERCE BUILDING, ST. LOUIS, MO.

CONSIGN to US
SELL to USCairo, Ills.
OR
St. Louis, Mo.**SERVICE**Such as YOU want

MEMBERS: CHICAGO BOARD TRADE

ST. LOUIS MERCHANTS EXCHANGE

CAIRO BOARD OF TRADE

INDIANAPOLIS BOARD OF TRADE MEMBERS

THE MUTUAL GRAIN CO.
INDIANAPOLIS, IND.
COMMISSION & BROKERAGEBest of attention given each shipment.
Your Consignments Solicited.**The Bassett Grain Co.**Indianapolis, Indiana
616 Board of Trade Building
Phones 80**Do You Want**

The grain trade news? Then subscribe for the Grain Dealers Journal. Twice each month for \$1.50 per year.

Jordan & Montgomery Co.
WHOLESALE GRAIN

623 Board of Trade Bldg. Both Telephones 18

We operate our own Terminal Elevator
at Indianapolis.

INDIANAPOLIS INDIANA

CLARK'S
Car Load
Grain Tables

Seventh Edition Revised and Enlarged

WITH these tables you can quickly check up all reductions and detect and prevent errors, which in the car lot business are liable to run into the hundreds of bushels. Largest and most complete car load reduction table ever published. Five new tables have been added and a set of tables for Malt is included in this new edition. RANGE—Oats and Cotton Seed (32 lbs.), 7 tables, from 20,000 to 97,000 lbs. Malt (34 lbs.), 5 tables from 20,000 to 75,000 lbs. Barley, Buckwheat and Hungarian Grass Seed (48 lbs.), 7 tables, from 20,000 to 97,000 lbs. Corn, Rye and Flax Seed (56 lbs.), 9 tables, from 20,000 to 118,000 lbs. Wheat, Clover, Peas and Potatoes (60 lbs.), 9 tables, from 20,000 to 118,000 lbs. The number of bushels in any weight of grain within the numbers specified above are given in bold face type, the remaining pounds in light face type. Pounds are printed in red and bushels in black.

PAPER—These tables are printed on durable heavy linen ledger paper and bound in leather covers with marginal index. Price, delivered, \$2.50.

TRY
Hoosier Grain Co.
COMMISSION and BROKERAGE614 Board of Trade Building
Both Phones 883 INDIANAPOLIS

GRAIN DEALERS JOURNAL 315 So. La Salle St., CHICAGO ILLINOIS

FIRST IN INDUSTRY Pittsburgh FIFTH IN POPULATION

**First in industry,
fifth in population,
heavy in grain receipts,
and the largest hay
market in the world.**

Pittsburgh's central location, with its splendid transportation facilities, and with a densely populated tributary territory, this City has developed rapidly as a market for foodstuffs.

In 1884 the receipts of grain were 3,600,000 bus., in 1912 receipts were over 15,000,000 bus. In 1883 hay receipts were 15,000 tons; in 1912 they were over 136,800 tons.

In addition, Pittsburgh merchants order a large amount of grain and hay shipped directly from the West to their customers in the East. This business would probably increase these figures 20%.

When reliable firms of a strong market come to your door in offering you quicker and higher returns, and more satisfactory service, does it not merit your opening the latch, and sending them a trial car?

Pittsburgh has something to offer every grain and hay shipper of the Central West, but you are the one shipper they want to interest and serve. Try any or all of the following firms.

"BILL IT TO PITTSBURGH"

**Austen Bros.
Elwood & Co., R. D.
Foster, C. A.
Geidel & Dickson
Hardman & Heck
Heck & Co., W. F.
Herb Bros. & Martin**

**Mahood Hay & Grain Co.
McCaffrey's Sons Co., Daniel
McCague, R. S.
Seavey & Clark
Smith & Co., J. W.
Stewart D., G., & Geidel
Walton Co., Samuel**

ST. LOUIS MERCHANTS EXCHANGE MEMBERS

RECEIVERS
W. L. GREEN COMMISSION CO.
ST. LOUIS
SHIPPERS
EXPORTERS

CONNOR BROS. & CO.
Receivers and Shippers of
GRAIN AND HAY
Screenings
ST. LOUIS and CHICAGO
Future orders executed.
ST. LOUIS

Toberman, Mackey & Co.
Receivers and Shippers of
HAY AND GRAIN
"Fastest Growing Commission House in U. S."
Can handle your Consignments at St. Louis and Kansas City.
ST. LOUIS KANSAS CITY

GOFFE & CARKENER CO.
105-107 Merchants Exchange
RECEIVERS
GRAIN, HAY & SEEDS
SAINT LOUIS
W. C. GOFFE
G. S. CARKENER
G. C. MARTIN, JR.
K. C., MO., Office,
101-102 Board of Trade

MORTON & CO.
GRAIN - HAY - SEEDS
COMMISSION ONLY
Merchants Exchange, ST. LOUIS, MO.

St. Louis
and
Elmore - Schultz
Grain Co.
for your
Consignments
433 Pierce Bldg., St. Louis, Mo.

Our service,
like a bullet, is cutting its way to success,
tho you may not see it. CONSIGN
GRAIN, HAY & SEEDS
TO
JONES-WISE
COMMISSION CO.
Chamber of Commerce, St. Louis, Mo.
V. M. Jones, Pres.
H. M. Wise, Vice-Pres. and Treas.
S. P. Steed, Secy.

"THE
Consignment House
OF
ST. LOUIS"
FOR THE SALE OF
GRAIN, HAY, AND GRASS SEEDS
PICKER & BEARDSLEY
COMMISSION COMPANY
118 NORTH MAIN ST.

Powell & O'Rourke
Receivers and Shippers
of
GRAIN
St. Louis Missouri

It is of Mutual Benefit to
Mention The JOURNAL
when writing Advertisers

Nanson Commission Co.

(INCORPORATED)

GRAIN AND HAY

Write us for full
information on
St. Louis Markets

202 Chamber of Commerce
ST. LOUIS

Consignments
a Specialty

DES MOINES GRAIN MERCHANTS

C. A. WRIGHT W. F. McWHINNEY
WRIGHT & McWHINNEY
Grain Commission Merchants
Receivers and Shippers
Track Bids. DES MOINES, IOWA

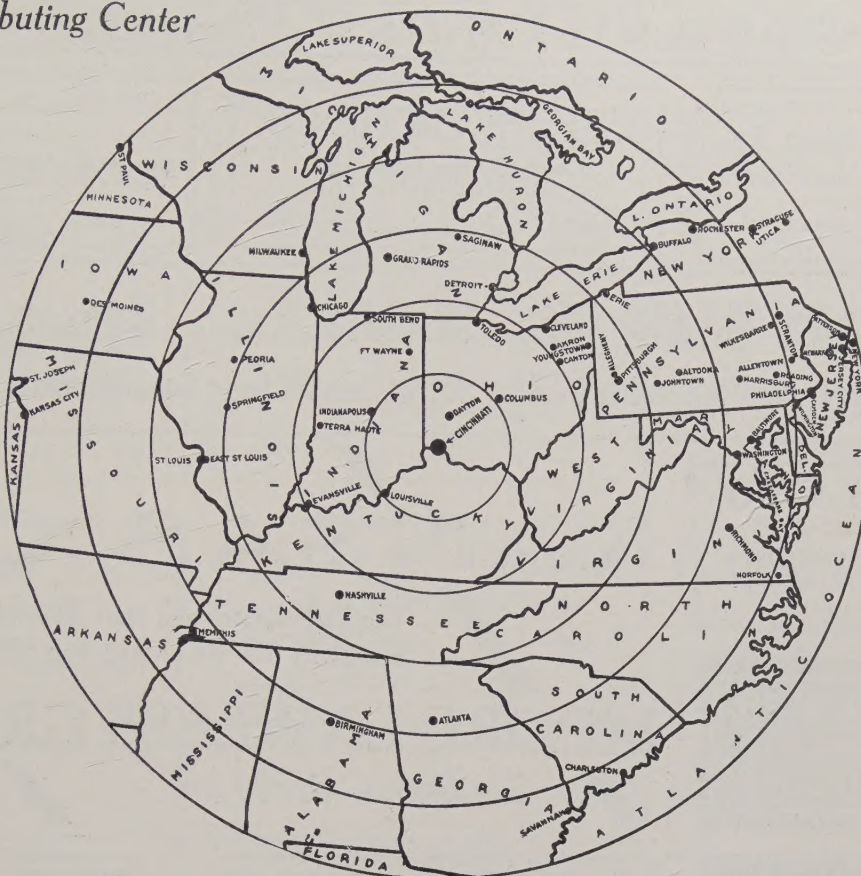
B. A. LOCKWOOD GRAIN CO.
Grain and Mill Feeds
Tel. Walnut 3202 710 Youngerman Bldg.
Des Moines, Iowa

TAYLOR & PATTON CO.
Buyers and Shippers of
GRAIN
FEEDER TRADE OUR SPECIALTY
DES MOINES, IOWA

Clark Brown S. E. Squires
S. E. SQUIRES GRAIN CO.
Hubbell Bldg., Des Moines
SAWERS GRAIN CO.
Grain Commission Chicago, Ill.

DES MOINES ELEVATOR CO. **OATS**
RECEIVERS AND SHIPPERS
GRAIN AND
Terminal Capacity 450,000 Bushels DES MOINES, IOWA **CORN**
A SPECIALTY

An Ideal Distributing Center



76,000,000 people within 24 hours run from Cincinnati

The surrounding population is self explanatory.

Within 100 miles, - - 2,793,187
Within 200 miles, - - 8,678,526
Within 300 miles, - - 20,880,946

Within 400 miles, - - 30,901,518
Within 500 miles, - - 42,939,812
Within 600 miles, - - 62,415,102

Cincinnati is the largest city nearest the center of the country's population. Its unexcelled railroad facilities, its quick and efficient receiving and disposing of shipments, its honest and accurate weights and grades, and its location in an advantageous position to supply such a large local and tributary demand, afford shippers a reliable, active, and profitable market.

Cincinnati supplies a large local consumption, and is the most logical distributing point to the South and Southeast.

Truly, these important facts spell satisfaction from your consignments and shipments, and working with following firms assures it.

Again we say, "Send it to Cincinnati"

Allen & Munson—Grain, Hay, Flour	Fitzgerald Bros. Co., The—Strictly Commission	Schmidt & Walker Co.—White Corn Goods
Bender, A.—Grain Brokerage & Com'n	Gale Bros. Co., The—Grain, Hay, Feed	Stafford & Gale—Grain and Hay
Blumenthal, Max—Grain Consignments	Gray, Ralph—Receiver and Shipper	Trent Milling Co.—Receivers and Shippers
Brown & Co., W. L.—Consignments	Howard, H. W.—Grain and Hay	Union Grain & Hay Co.—Grain Buyers
Cincinnati Grain Co.—Com'n M'rchants	Maguire & Co.—Hay, Grain, Com'ission	Van Leunen & Co., Paul—Grain Com'n
Collins & Co.—Exclusively Commission	McQuillan & Co.—Grain, Hay and Feed	Van Leunen Co., The—Hay and Grain
Ellis & Fleming—Grain and Hay	Perin Bros.—Millers and Grain Merchants	Weber, W. H.—Grain, Hay, Feed
Emrick, C. S., Co., The—Grain and Hay	Richter Grain Co.—Grain, Hay, Flour, Feed	Whitcomb & Root—Hay, Grain, Mill
Ferger Grain Co., The—Grain, Hay, Feed		

KANSAS CITY BOARD OF TRADE MEMBERS

R. J. THRESHER, Pres. L. A. FULLER, Secy.

Thresher Fuller Grain Co.
Grain Commission Merchants
Consignments SolicitedGrain Bought and Sold for Future Delivery
311 Board of Trade KANSAS CITY, MO.**HOEBEL GRAIN CO.**Consign Your Grain to a
Strictly Commission Firm
KANSAS CITY, MISSOURIWe Have Real Selling Ability.
Use it for your Consignments.**W. S. NICHOLSON GRAIN CO.**Established 1895
310 Board of Trade KANSAS CITY**ROAHEN-CARY GRAIN CO., Wichita, Kas., Kansas City, Mo.**

If you want top notch Service, let us handle your Consignments.

A. C. DAVIS & CO.Grain Commission
Mill Orders a Specialty
Consignments and Future Orders Solicited
KANSAS CITY, U. S. A.**KANSAS CITY**

The Highest Corn and Oats Market.

CONSIGN TO US or Ask For Bids

MOORE-LAWLESS GRAIN CO.

KANSAS CITY, MO.

SHANNON GRAIN CO.Consignments Solicited
KANSAS CITY, MISSOURI**CONSIGN****Ernst-Davis Grain Co.**

Kansas City,

SPECIAL ATTENTION
GIVEN TO FUTURES

MEMBERS

Kansas City Board of Trade
Chicago Board of Trade
St. Louis Merchants Ex.**KAFFIR CORN
MILO MAIZE GRAIN**

CANE AND OTHER FIELD SEEDS

B. C. CHRISTOPHER & CO.

Consignments and Orders Solicited
Grain Bought and Sold for future delivery
316 to 321 Board of Trade
KANSAS CITY, MO.**HAY THERE!
GRAIN TOO**Russell Grain Co.
Kansas City, Mo.**RAILROAD CLAIMS BOOK**

This book is designed to facilitate the making of Claims against railroads and keeping a complete record of them. Contains five forms in duplicate arranged so a carbon copy can be kept of each claim, as follows:

- 60—Form A. Loss of weight in transit.
- 10—Form B. Loss in market value due to delay.
- 10—Form C. Loss in quality due to delay in transit.
- 10—Form D. Loss in market value due to delay in furnishing cars.
- 10—Form E. Overcharge in freight.

This book will save its price many times over by economizing time and labor, and insuring an accurate and complete record. Form 411-5 Price \$1.25.

GRAIN DEALERS JOURNAL,

315 So. La Salle St., CHICAGO, ILL.

Say you saw it in the

JournalWhen you write our advertisers
Thanks**DETROIT BOARD OF TRADE MEMBERS****Dumont, Roberts & Co.**Solicit Your Detroit Consignments
Receivers and Shippers
Chamber of Commerce, Detroit, Mich

Established 1865

J. S. LAPHAM & CO.

Grain and Commission Merchants

FRED W. BLINN, Manager, 601-2-3 Chamber of Commerce, DETROIT, MICH
Consign to or wire us your offerings on CORN and OATS**McLANE, SWIFT & CO.**
Grain Merchantsannounce the removal of their office from
Battle Creek to405 Chamber of Commerce
DETROIT, MICHIGAN**F. J. Simmons & Co.****GRAIN and HAY**

(Consignments a Specialty)

DETROIT

Cifer Codes

ALL KINDS.

WRITE FOR CATALOG TO

Grain Dealers Journal

CHICAGO, ILL.

CHICAGO BOARD OF TRADE MEMBERS

PHILIP H. SCHIFFLIN President
EUGENE SCHIFFLIN Sec'y and Treas.

Philip H. Schifflin & Co.
(INCORPORATED)

Commission Merchants
GRAIN, SEEDS and PROVISIONS

515-518 Postal Telegraph Bldg.
Tel. Harrison 833 CHICAGO, ILL.

THE success of the present
Rosenbaum Brothers
organization rests upon the
confidence of the grain dealers
in its salesmanship, its methods
and its business integrity. We
are exponents in the broadest
sense of "The Square Deal."

ROSENBAUM BROTHERS

"THE RESULT GIVERS"

77 Board of Trade Chicago, Illinois

Receivers and Shippers
OF

**Grain
Seeds
Provisions**

E. W. BAILEY & CO.

Commission Merchants

72 Board of Trade Chicago, Ill.

NORRIS & CO.

GRAIN MERCHANTS

Room 42 Board of Trade
Telephone Harrison 627 CHICAGO

Consignments and hedging orders
orders solicited

Owners and operators of the Norris Elevator,
Chicago

Frank W. Hotchkiss-Howard Lipsey

Managers Domestic Shipping and
Receiving Department

GEO. B. QUINN

GRAIN COMMISSION

65 Board of Trade CHICAGO
Telephone Harrison 571

Experienced Judges of Grain

W. S. COWEN CO.

Commission Merchants
Grain and Seeds

Robinson Cipher Code 327 S. LA SALLE ST., CHICAGO

CONSIGNMENTS

Always Given Prompt Attention; Future
Orders Carefully Executed.

Our organization is complete. We
will aim to serve you well.

UPDIKE

Commission Company

Postal Telegraph Building, Chicago

C. H. THAYER & CO.

Your Consignments and
Future Orders Solicited

175 W. Jackson Blvd. - - CHICAGO

Henry H. Freeman & Co.

COMMISSION MERCHANTS

GRAIN HAY STRAW

66 BOARD OF TRADE, CHICAGO

REQUA BROTHERS
CHICAGO

Stands for Prompt Returns, undi-
vided attention to selling Consign-
ments. - Give us a Trial.

FRANK E. GULICK, Manager Rec. Dept.

Good Execution Keeps Customers
Keeping Customers is Our Business

W. G. PRESS & CO.

GRAIN, PROVISIONS, STOCKS

175 W. Jackson Blvd., CHICAGO

Write for Daily Market Report,
Mailed free.

35 Years Active Member Chicago
Board of Trade

Wm. Simons
President

Consignments
Solicited.

We place
grain to
arrive.

Geo. L. Stebbins
Secretary
S. E. Squires

Warren T. McCray
Vice-President

Future
orders
given
personal
attention.

Edgar E. Rice
W. A. Werner
Representatives

SAWERS GRAIN CO.
CHICAGO

910-920 POSTAL TEL. BLDG.

TELEPHONE: HARRISON 1504

H. M. PAYNTER

Grain Commission—Correspondence Solicited.

522 Western Union Bldg., Chicago

All business transacted thru H. W. Rogers & Bro.

ST LOUIS

PEORIA

W. A. FRASER CO.

Consignments and
Future Delivery Orders Solicited
Suite 715 Royal Ins. Bldg. CHICAGO

W. H. MERRITT CO.
Grain Buyers and Shippers

CORRESPONDENCE SOLICITED

87 Board of Trade, Chicago, Ill.

Encourage **ADVERTISING**

by your attention—the benefits
are yours. Mention The

Grain Dealers Journal

ARMOUR GRAIN COMPANY
CONSIGNMENTS SOLICITED

We are Fully Equipped in Every Way to Give Best Service in Chicago

137 S. LA SALLE ST.

CHICAGO

CHICAGO BOARD OF TRADE MEMBERS**J. H. DOLE & CO.****Grain and Seed Commission****Consignments Solicited****226 S. La Salle St., CHICAGO**

WALTER FITCH

LEEDS MITCHELL

W. K. MITCHELL

JOHN H. ASHUM

WALTER FITCH & COMPANYMAKE A SPECIALTY OF CONSIGNMENTS
AND ALSO SOLICIT ORDERS FOR FUTURES**651-59 Insurance Exchange, CHICAGO**

If you have failed to find a logical connection
between your consignments and more satis-
factory returns, a trial car of grain or seeds to

HENRY RANG & CO.

will disclose the missing link.

*Traveling Representatives—*W. R. Hyde
J. R. Murrel**GRAIN AND SEEDS**

Barley a Specialty

**230 S. La Salle St.
CHICAGO****Hooper Grain Co.****OAT
SHIPPERS****Operate Atlantic and Grand
Trunk Western Elevators
Chicago****WE ARE LONG**

Experience, Energy and Ability

ARE YOU SHORT RESULTSSend us your Hedges and Con-
signments and be satisfied.**W. H. PERRINE & CO.**

(Incorporated)

GRAIN AND PROVISIONS**311-314 Postal Telegraph Bldg., CHICAGO**

YOU KNOW it requires ex-
perience to secure satisfactory
results in selling any Grain,
Barley particularly. We have
had 24 years' tuition.

Try us, either with Consign-
ments or to-arrive lots.

THE

Moses Rothschild Co.

Incorporated

GENERAL GRAIN COMMISSION

"We Specialize in Barley"

**915 POSTAL TELEGRAPH BLDG.
CHICAGO****J. ROSENBAUM GRAIN CO.**

(INCORPORATED)

GRAIN MERCHANTS**Correspondence Solicited****KANSAS CITY****CHICAGO**J. Herbert Ware
Edward F. Leland**CONSIGN**your Grain and Seeds, and
send your orders for **GRAIN,**
PROVISIONS and **STOCKS** to**Ware & Leland****160 WEST JACKSON BLVD.
Royal Insurance Bldg., CHICAGO**

Long Distance Phones

Wabash 3262

**Your Interests Are Our
Interests****Lamson Bros. & Co.**

ESTABLISHED 1874

Commission Merchants**Grain Consignments
Solicited**Also future delivery orders on all ex-
changes.**Grain — Provisions — Stocks — Cotton****6 Board of Trade****CHICAGO**

CHICAGO BOARD OF TRADE MEMBERS

SOMERS, JONES & Co.

COMMISSION MERCHANTS

GRAIN AND FIELD SEEDS

Consign your **GRAIN** and **SEEDS** to us for close personal attention and best possible results. We are fully prepared to give the best of service on consignments and on orders for future delivery

Ship us that next car.

Send for our market letters.

**CHICAGO
MILWAUKEE
MINNEAPOLIS**

Make drafts on us and address all correspondence to us at

82 Board of Trade, CHICAGO.

RUMSEY & COMPANY
RECEIVERS OF RESPONSIBILITY & CONSIGNMENTS OF CONSERVATISM
CHICAGO

H. W. Rogers, Pres. J. C. Rogers, Vice-Pres.

ROGERS GRAIN COMPANY

Buyers and Shippers of Grain.

References: Corn Exchange National Bank
First National Bank.

522 Western Union Building CHICAGO

H. W. Rogers J. C. Rogers

H. W. ROGERS & BRO.

GRAIN, SEED AND PROVISIONS
COMMISSION MERCHANTS

522 Western Union Bldg. CHICAGO

THE QUAKER OATS Co.

MILLERS

WHEAT CORN OATS BARLEY RYE

SEND SAMPLES

1600 RAILWAY EXCHANGE
GRAIN DEPARTMENT

Chicago

Nye & Jenks Grain Co.

Grain and Commission Merchants

907-913 Postal Telegraph Bldg. CHICAGO, ILL.

FINLEY BARRELL
PETER J. MALONEY

FREDERICK C. ALDRICH
BENJAMIN BLOCK

Finley Barrell & Co.

GRAIN
PROVISIONS
STOCKS

The Rookery CHICAGO

MILWAUKEE CHAMBER OF COMMERCE MEMBERS

Grain Dealers

It is no speculation to ship us your grain. It's a sure thing you will be satisfied.

L. BARTLETT & SON CO.
Milwaukee Chamber of Commerce

STACKS & KELLOGG
GRAIN MERCHANTS

480 Commerce St. MILWAUKEE, WIS.
We also handle all grades of chicken feed wheat, feed
barley, screenings, off-grade and damaged grain.
Operating Private Elevator

TRY
M. G. RANKIN & CO.
on consignments of

Barley, Rye, Corn, Oats
First Floor, Chamber of Commerce
MILWAUKEE

CHICAGO MINNEAPOLIS
J. V. LAUER & CO.

Grain Commission
BARLEY A SPECIALTY

Ship us your
next car.

Chamber of Commerce
MILWAUKEE, WIS.

B. G. ELLSWORTH

20-21 Chamber of Commerce, MILWAUKEE, WIS.
23 years experience in Milwaukee market
Consignments and shipping orders
given special attention.

E. G. HADDEN CO.
FUTURES

WHEAT, CORN AND OATS
DAILY and WEEKLY PRIVILEGES
Chamber of Commerce, Milwaukee, Wis.
Send for our Put and Call Circular.

We have induced reliable advertisers to talk to you.
If they interest you, mention that you saw it in The

Grain Dealers Journal

PHILADELPHIA COMMERCIAL EXCHANGE MEMBERS

From YOU to the Eastern Retailer
there is only ONE profit, if you
consign to Lemont.

E. K. LEMONT & SON
388-90 Bourse Bldg. Philadelphia, Pa.

E. E. DELP GRAIN CO.

ELEVATOR AND MILLS
BOURBON, INDIANA

Eastern Office, - Philadelphia, Pa.

CORN and oats in split cars find a
ready market here.

M. F. BARINGER THE BOURSE 502-3-4 PHILADELPHIA

L. F. MILLER & SONS

CONSIGNMENTS SOLICITED

Receivers and Shippers of
GRAIN, FEED, SEEDS, HAY, ETC.

Office 2931 N. Broad Street, PHILADELPHIA, PA.

PEORIA BOARD OF TRADE MEMBERS

MUELLER GRAIN COMPANY

Receivers and Shippers

GRAIN & HAY

Consignments Solicited. Track Bids Made on Request
Room 39 Chamber of Commerce, Peoria, Ill.

RUMSEY, MOORE & CO.

GRAIN COMMISSION

Board of Trade PEORIA, ILL.

Your Consignments solicited—Personal attention—
Quick Returns to all. Ask for Our Bids

BUCKLEY, PURSLEY & CO.

Commission Merchants
GRAIN AND SEEDS
10 Chamber of Commerce, PEORIA, ILL.

GEO. L. BOWMAN & CO.

GRAIN COMMISSION

PEORIA, ILLINOIS

Clark's
Car
Register

Shows at a glance where to look for the record of any car of
grain. It is made of heavy ledger paper, is well bound and
indexed. Size 11x14½ in.

No. 40.	Contains spaces for 9000 cars	-	-	-	-	\$1.50
No. 42.	Contains spaces for 17000 "	-	-	-	-	2.50

GRAIN DEALERS JOURNAL
La Salle Street

Chicago, Ill.

MINNEAPOLIS CHAMBER OF COMMERCE MEMBERS

F. M. Davies & Co.
GRAIN COMMISSION.
MINNEAPOLIS. DULUTH.

SHIP TO
H. POEHLER CO.
EST. 1855
GRAIN COMMISSION
MINNEAPOLIS DULUTH

GRAIN BOOKS
G.F.
OLSON PRINTING CO.
CASH TICKETS SCALE TICKETS
STORAGE
316-318 4th Ave. So., Minneapolis, Minn.

J. H. Riheldaffer Co.

153 Chamber of Commerce Annex
MINNEAPOLIS

Grain Commission

Careful personal attention given to
consigned grain. We know its value.

Making money for others has made
money for us

By executing consignments and shipments more
satisfactorily, shippers naturally sent us more
grain. By making others successful we natu-
rally obtained ours. By consigning us, you too
can be successful. See what that next car to us
brings to you.

Branch Offices

Helena, Mont.
Aberdeen, S. D.

Sioux City, Ia.
Omaha, Nebr.

McCaull-Dinsmore Co.
MINNEAPOLIS DULUTH

MINNEAPOLIS CHAMBER OF COMMERCE MEMBERS

**The VAN DUSEN-HARRINGTON Co.
GRAIN COMMISSION**

Write for prices and samples. We solicit your consignments and futures business.

Minneapolis Winnipeg Duluth

NEW CROP
CONSIGNMENTS
WERNLI-ANDERSON CO.
MINNEAPOLIS, MINN.

H. L. HANKINSON & CO.

GRAIN COMMISSION

Solicit Your Consignments

MINNEAPOLIS

MILWAUKEE

DULUTH

GOULD GRAIN CO.

F. J. SEIDL

P. M. INGOLD

Consignments

A Specialty

Write for our Special Market Letter

MINNEAPOLIS, MINN.

For Good Results

Better Consign to the Old Firm

Nicholls & Taylor

MINNEAPOLIS

or

McKindley & Nicholls

DULUTH

Consign Your Grain

To

Cargill

Commission Company

Good Sales

Absolute Security

Quick Returns

Courteous Treatment

Write for Market Letter and Barley
Posting Service.

754 Security Bank Bldg.
MINNEAPOLIS

611 Board of Trade
DULUTH

**To BUY or SELL
RENT or LEASE
an ELEVATOR**

Place an adv. in the "Wanted" or "For Sale"
columns of the GRAIN DEALERS JOURNAL
of Chicago. It will bring you quick returns.

Every Car Is a Trial Consignment

with

FRASER-SMITH CO.

DULUTH

MINNEAPOLIS

MILWAUKEE

E. L. WELCH, Pres. and Treas.

C. A. MALMQUIST, Vice-Pres

T. H. WELCH, Secy.



Consignments solicited. Special attention
given to "sell to arrive orders." Option
orders executed in all markets.

GIVE US A TRIAL

BUFFALO CORN EXCHANGE MEMBERS

The Townsend-Ward Co.

Chamber of Commerce, BUFFALO, N. Y.

We are in position to give "Help" to all consignors of grain and as for facilities, "WE got 'em."

GRAIN SHIPPERS, lend us your ears, so that we might tell you how you can BEST promote your interest by consigning your Grain to

The Churchill Grain & Seed Co.
BUFFALO, NEW YORK

Buffalo Cereal Company

BUYERS OF

WHITE CORN, YELLOW CORN
and **WHITE OATS**

BUFFALO

NEW YORK

Electric Elevator & Milling Co.

RECEIVERS and SHIPPERS

GRAIN

Consignments Solicited

319 Chamber of Commerce, BUFFALO, N. Y.

PRATT & CO.

Grain Commission Merchants

Correspondence Solicited

817-829 Chamber of Commerce
BUFFALO, N. Y.

REMEMBER

When making consignments to Buffalo, that we do a

STRICTLY COMMISSION BUSINESS

W. G. HEATHFIELD & CO.

Members of Corn Exchange, BUFFALO, N. Y.

A. W. HAROLD
GRAIN
BARLEY

A SPECIALTY

717 Chamber of Commerce, Buffalo, N. Y.

BURNS GRAIN CO.**S. M. RATCLIFFE**

Grain, Hay and Straw

Chamber of Commerce, Buffalo, N. Y.

Receiver and Shipper

Say you saw it in the

Journal

When you write our advertisers
Thanks

GET THE

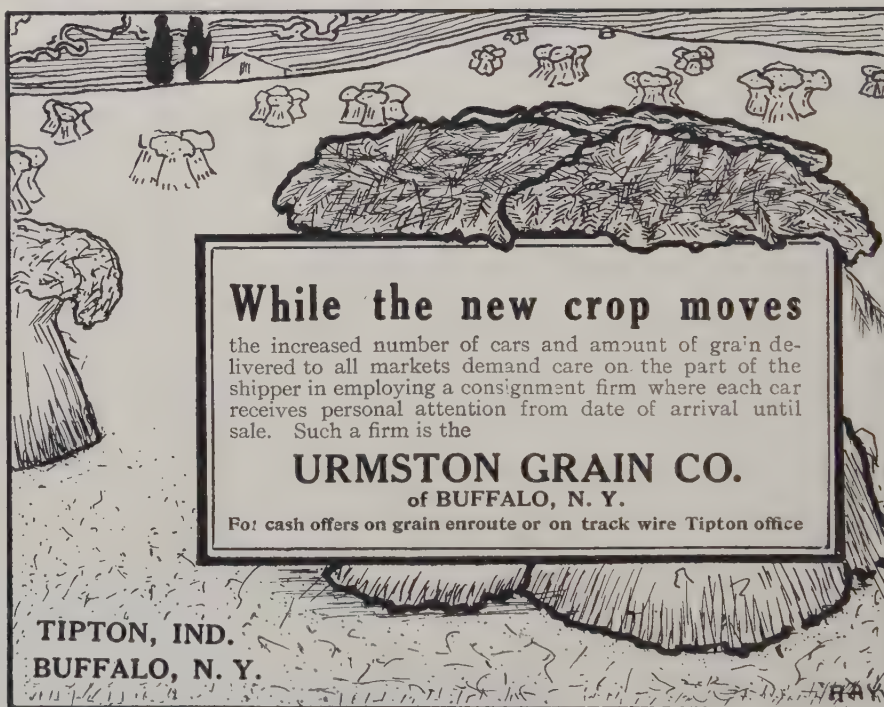
New Robinson's Cipher
Revised Edition

with 1912 Supplement

An absolute necessity to every grain dealer in active business today. Do not waste money by trying to do business with out of date editions.

Printed on good paper, bound in full leather with gilt edges, \$2.00. Cloth \$1.50.

GRAIN DEALERS JOURNAL
315 So. La Salle St., CHICAGO, ILL.



While the new crop moves

the increased number of cars and amount of grain delivered to all markets demand care on the part of the shipper in employing a consignment firm where each car receives personal attention from date of arrival until sale. Such a firm is the

URMSTON GRAIN CO.
of BUFFALO, N. Y.

For cash offers on grain enroute or on track wire Tipton office

TIPTON, IND.
BUFFALO, N. Y.

NEW YORK PRODUCE EXCHANGE MEMBERS

L. W. FORBELL & CO.

COMMISSION MERCHANTS
GRAIN AND MILL FEED; OATS A SPECIALTY
Consignments Solicited.

342 Produce Exchange
NEW YORK CITY

Keusch & Schwartz Co., Incorporated
Produce Exchange, New York

CUSHING & BRANDT

CONSIGNMENTS SOLICITED

COMMISSION MERCHANTS

BUYERS OF CASH GRAIN

WE BUY HOT CORN

Make us offers, will always respond

MEMBERS

NEW YORK PRODUCE EXCHANGE

CHICAGO BOARD OF TRADE

BUFFALO CORN EXCHANGE

NATIONAL GRAIN DEALERS ASSOCIATION

424 PRODUCE EXCHANGE, NEW YORK

Judicious Advertising as Irresistible as Niagara

The Journal Continuously Demonstrates It

OMAHA GRAIN EXCHANGE MEMBERS

CAVERS ELEVATOR COMPANY
OMAHA, NEB.

Buy, Sell, Handle Consignments, Grain and Hay, make Pure Corn Chops, Sack grain, quote prices delivered any R. R. station.

Imperial Milling Co. Elevator

Office, Brandeis Bldg., Omaha, Neb.

We buy and sell Grain, Sack Grain, and Solicit Consignments.

CROWELL ELEVATOR COMPANY

Receivers and Shippers

GRAIN

Consignments Solicited
OMAHA

E. E. HUNTLEY

GRAIN BROKER

Reference; Any Bank or ELEVATOR Firm in Omaha
Correspondence Solicited

Consignments

Personal Attention,
Experienced Ability,
Diligent Efforts,
Satisfactory Service
Lucrative Returns.

Receivers and
Shippers of Grain

Try the next car to

Saunders-Westrand

Elevator Company
OMAHA, NEBR.

"All We Know Is Consignments"
MERRIAM COMMISSION CO.
GRAIN
Brandeis Bldg. OMAHA

Omaha Consignments

RECEIVE MORE-THAN-SATISFACTORY-SERVICE
WHEN CONSIGNED TO

UPDIKE-GRAIN-CO.

Want an Elevator?

Then consult the "Elevators for Sale" columns in this issue of the Grain Dealers Journal.

MEMPHIS MERCHANTS EXCHANGE MEMBERS



You Know

You want to do business with the grain shippers. Tell them so. The Grain Dealers Journal reaches them.

U. S. FEED & GRAIN CO.

Dealers in GRAIN, HAY, MILL FEED
Manufacturers MIXED FEEDS
Correspondence Solicited

MEMPHIS, - TENNESSEE

Write Us

H. J. Hasenwinkle Co., want your consignments for the Memphis market.

A Want Ad in the JOURNAL printed,
Brings Business, Gets Results
Unstinted.

SIOUX CITY GRAIN EXCHANGE MEMBERS

Flanley Grain Company
GRAIN COMMISSION

We solicit consignments and we make high track bids. Phone or wire us for bids, also for delivered prices.

OFFICES:—SIOUX CITY, IOWA OMAHA, NEB.

MEMBERS:—Omaha Grain Exchange Sioux City Board of Trade Milwaukee Chamber of Commerce

IOWA-DAKOTA GRAIN CO.

Grain and Commission Merchants

FURNISHING GRAIN TO MILLS AND INTERIOR POINTS A SPECIALTY

Write or Wire for Prices. SIOUX CITY, IA.

TOLEDO PRODUCE EXCHANGE MEMBERS

WHEN "SEEDY"

Try

C. A. KING & CO.

Toledo Leads World

Read the Advertising pages.
They contain many stories of interest.
The *Grain Dealers Journal* presents only reputable concerns.

JOHN WICKENHISER & CO.

Wholesale Grain Dealers
TOLEDO, OHIO

We make track bids and quote delivered prices.
Solicit consignments of Grain and Clover Seed.
Members Toledo Produce Exchange and Chicago Board of Trade

RECEIVERS, SHIPPERS AND BROKERS

McCRAY, MORRISON & COMPANY
Shippers of Corn and Oats
WHOLESALE GRAIN DEALERS
 When you want QUICK SERVICE, HIGH QUALITY and SATISFACTORY PRICES in this line, consult us.
 None are more able to give you this than we.
 Correspondence Solicited. **KENTLAND, INDIANA**

E. A. GRUBBS GRAIN CO.
 Greenville, Ohio

Wants Correspondence with members of the Grain Dealers National in Ohio, Indiana and Illinois. We want strictly sound winter wheat, yellow shelled corn and recleaned white oats.

TRY

T. P. GORDON COMMISSION CO.
 Grain Merchants, St. Joseph, Mo.

On your next shipment

Our service plus personal attention will net you results.

Paul Kuhn & Co.
 Receivers and Shippers of
GRAIN
 Terre Haute and Evansville, Ind.

**CRABBS REYNOLDS
 TAYLOR CO.**
 GRAIN AND OLEO SEED
 CRAWFORDSVILLE INDIANA

The Norton Grain Co.
 Receivers and Shippers
KANSAS HARD WHEAT
 Topeka - - - Kansas

E. F. Shepard O. W. Trapp Chas. G. Clark
Shepard, Clark & Co.
 218 Columbia Bldg., CLEVELAND, O.
GRAIN HAY STRAW
 Dried Beet Pulp, "Hector" Distillers Grain, Mill Feed

E. I. BAILEY
 CLEVELAND, OHIO
 Receiver and Shipper of
 Corn, Oats, Millfeed
 ASK FOR PRICES

The D. W. RANLET CO.
 708 Chamber of Commerce, BOSTON, MASS.
 Cash buyers of all kinds of grain, for the New England Territory. Sample wheat, barley, screenings, oat-feed, malt sprouts, etc., specialties. We solicit correspondence

BALDWIN GRAIN COMPANY
 GRAIN BROKERS
 BUYERS OF CAR LOTS
 R. C. BALDWIN, Mgr. BLOOMINGTON, ILL.

The Southwest will buy lots of corn this season.
 If you have good dry corn for sale send your quotations to
SMITH BROS. GRAIN CO.
 FT. WORTH, TEXAS
 Largest Handlers of Cash Corn in Texas

MATTHEW D. BENZAQUIN
 GRAIN AND FEED
 Brokerage and Commission
 DOMESTIC AND EXPORT
 505 Chamber of Commerce, Boston, Mass.

L. E. SLICK & CO.
 402-405 Livingston Bldg., Bloomington, Ill.
CASH GRAIN
 We Buy Grain for All Markets.
 Both Phones. Get Our Prices.

Record of C. N. D. QUOTATIONS

Quotation Record, Form 97A, is formed of sheets of bond paper ruled to facilitate the recording of daily market prices of different options.

Each sheet is headed "Board of Trade Quotations for Week Commencing Monday, . . . 19. . ." Columns are provided for 4 Wheat options, 4 Corn and 4 Oats; have spaces for the market hourly and at close. Closing prices for previous week are listed at top.

Sixty sheets, 9½x9½ inches, are well bound in book form—a year's supply. Price 75 cents.

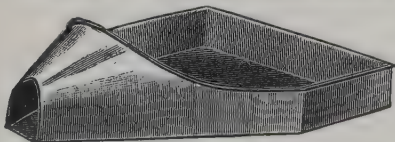
GRAIN DEALERS JOURNAL
 315 S. La Salle Street Chicago, Illinois

STOCKBRIDGE ELEVATOR CO.
 Buyers and shippers of
GRAIN, HAY, BEANS and WOOL
 "Quick service, give us a trial."
JACKSON, MICH.

KINSEY BROS.
 GRAIN, HAY and SEED MERCHANTS
 Field Seeds a Specialty
 NORTH MANCHESTER, INDIANA

WILLIS E. SHILDEN
 Wholesale Grain
JACKSON MICHIGAN

GRAIN SAMPLE PAN



For Examining Samples of Grain and Seeds.
 Made of Aluminum, strong, light and well made.
 Will not Rust or Tarnish.

Grain Size 2½x12x16½ inches. \$1.50
 Seed Size, 1½x9x11 inches. \$1.25
GRAIN DEALERS JOURNAL, 315 S. La Salle St., Chicago

INTERIOR GRAIN COMPANY BARLEY A SPECIALTY

We buy and sell BARLEY, OATS, CORN. SEND us SAMPLES for bids WRITE, TELEGRAPH, PHONE us for prices.

Ship your grain to us for bids. If not accepted, we will forward to your Commission House, Chicago or Milwaukee.

We pay drafts, order bill lading attached, give you official weights and make quick returns.

DAVENPORT, IOWA

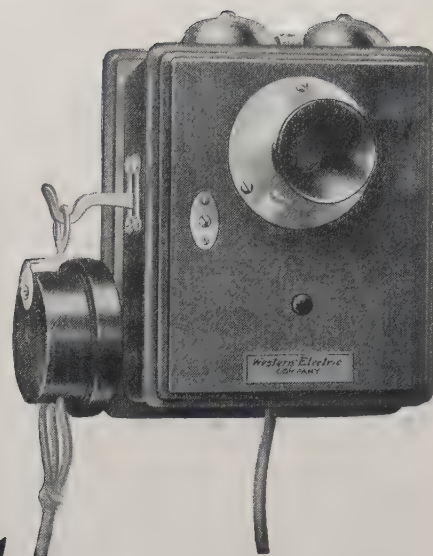
VEST ROCKET GRAIN TABLES

Clark's Vest Pocket Grain Tables reduce pounds to bushel on any number of pounds from 10 to 100,000. Printed on ledger paper in red and black. The red figures show the pounds and the black the bushels and pounds.

The tables show the following reductions: Oats at 32 lbs.; Corn, Rye and Flaxseed at 56 lbs.; Wheat, Clover Seed, Beans, Peas and Potatoes at 60 lbs.; Barley and Hungarian Seed at 48 lbs.; Ear Corn at 70 lbs.; Ear Corn at 75 lbs.; Ear Corn at 80 lbs. Timothy Seed at 45 lbs.

These tables are bound in heavy manila and form a thin book 2½-in. wide by 8½-in. long Price 50 Cts. Address
GRAIN DEALERS JOURNAL, 315 So. La Salle Street, CHICAGO, ILLINOIS

It is the returns from advertising that permits the maximum of service to our readers. Please specify the *Grain Dealers Journal* when writing an advertiser.



Keep a telephone eye on your departments with a system of

Western Electric Inter-phones

These practical intercommunicating telephones should be included in your scheme of scientific management.

They produce real time economy—a real saving.

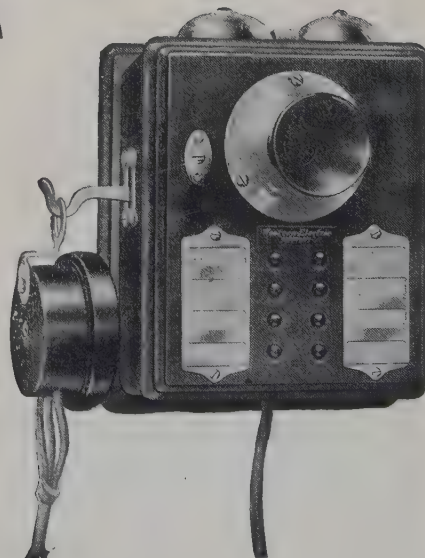
Write for booklet and prices.

WESTERN ELECTRIC COMPANY

Manufacturers of the 7,000,000 "Bell" Telephones

New York	Chicago	Kansas City	San Francisco	Montreal	London
Buffalo	Milwaukee	Oklahoma City	Oakland	Toronto	Berlin
Philadelphia	Pittsburgh	Minneapolis	Los Angeles	Winnipeg	Paris
Boston	Cleveland	St. Paul	Dallas	Calgary	Rome
Richmond	Cincinnati	Denver	Houston	Vancouver	Johannesburg
Atlanta	Indianapolis	Omaha	Seattle	Edmonton	Sydney
Savannah	St. Louis	Salt Lake City	Portland	Antwerp	Tokyo

EQUIPMENT FOR EVERY ELECTRICAL NEED



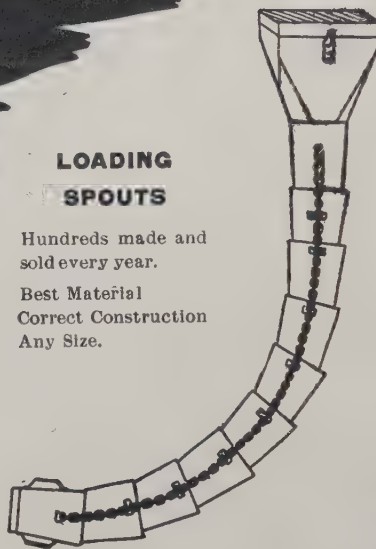
Everything for the elevator



LOADING SPOUTS

Hundreds made and sold every year.

Best Material
Correct Construction
Any Size.



PULLEYS

Cast Iron,
Steel Rim,
Wood Split,
Friction,
Clutch.
Large Stocks.



SPROCKET WHEELS

Plain
Split or with
Clutches.



SALEM AND EMPIRE CUPS



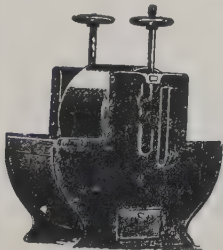
SPROCKET CHAIN

All Sizes

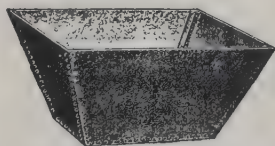


CAST IRON BOOTS

Adjustable, All Sizes



SHEAVE WHEELS
TRANSMISSION ROPE
DISTRIBUTING SPOUTS
INDICATOR STANDS
SPIRAL STEEL CONVEYORS
CONTROLLABLE WAGON DUMPS
PLAIN DUMP IRONS
EAR CORN FEEDERS
FEED MILLS
MAN-LIFTS, ETC.



BOOT PANS

All Sizes



COMPLETE LINE OF BEARINGS

Plain and Self-Oiling.



GRAIN TESTERS

Both HOWE and CHAMPION carried in stock.



WAGON HOPPER and DUMP SCALES



RUBBER and LEATHER BELTING.

Our Seamless Rubber Belting is the best for elevator service and is guaranteed.

Gasoline Engines - Automatic Scales - Corn Shellers - Cleaners

Let us send our Handy Net Price Catalog. Special Prices on Complete Elevator Equipment.

LET US MAKE YOU A PRICE

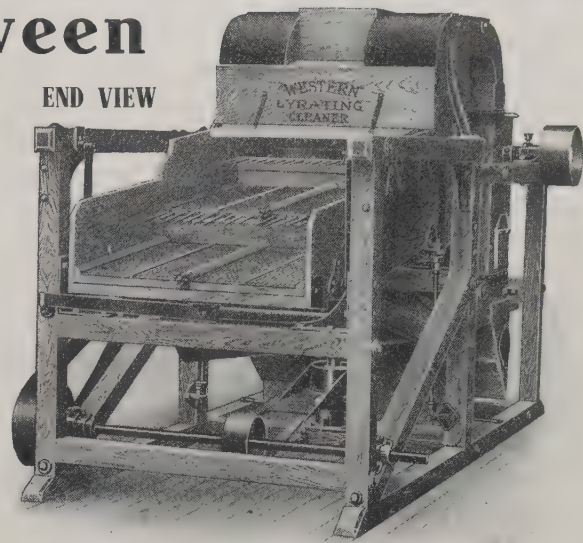
LARGEST STOCK
LOWEST PRICES

American Supply Co.
OMAHA NEB

Grain Elevator Machinery and Supplies.

If you have failed to see the logical connection between your elevator and more and bigger profits, we'll gladly show you the missing link.

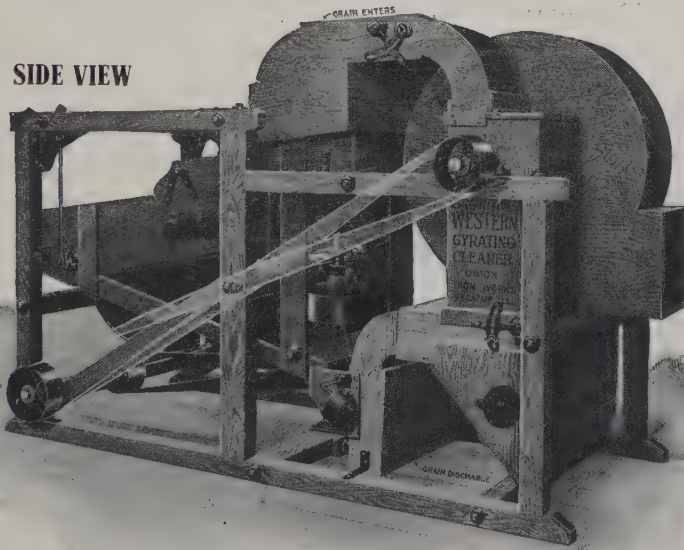
The entire "WESTERN" Line is the accepted solution for a quicker, easier and a more profitable handling and cleaning of grain, and we believe the



END VIEW

"WESTERN" Gyrating Cleaner

SIDE VIEW



THE BEST IN FORTY YEARS

to be the best "money-making" and "profit-getting" device any grain elevator operator can install.

A "WESTERN" Gyrating Cleaner enables you to buy grain of any grade and quickly and cheaply raise it one or two grades, thus securing the premium prices and extra profits from your shipments. Clean grain always demands high prices, and the cleaner the grain the higher the price.

A "WESTERN" Cleaner cleans more grain faster, better and cheaper than any other cleaner manufactured.

This advertisement is one means of showing you the missing link, our book "Everything From Pit to Cupola" is another, and our personal experience and advice are others.

Two cents has connected others with thousands of dollars. Invest two cents in a stamp, and let us know of your requirements today.

Union Iron Works, Decatur, Ill.

Gentlemen:—I am well pleased with your WESTERN Gyrating Cleaner. I have handled cleaners for forty years, and this is the most perfect one I have worked with.

Era, O., July 22, 1913

WM. M. MOGAN

UNION IRON WORKS, Decatur, Illinois.



OLDEST and largest manufacturer of Rubber Belting for conveying and elevating grain, etc., etc.

New York Belting & Packing Co.

91-93 Chambers Street, NEW YORK

130 West Lake Street
CHICAGO, ILL.

2nd Avenue, N., and 3rd Street
MINNEAPOLIS, MINN.

When it comes to the greatest number of high service records, you'll find more to the credit of

SALISBURY "R.F.&C."

Solid Woven Rubber Belting

than those of any other rubber belt manufactured, and the secret is in the belt.

A sample discloses the secret
Write for one today

W. H. SALISBURY & Co., Inc.

Manufacturers and Distributors of High Grade
Leather and Rubber Belting, Hose, Packing, Etc.

Established 1855

CHICAGO, ILL.

A Special Belt for Elevating and Conveying Grain

REXALL

DOUBLE-STITCHED

BELTING

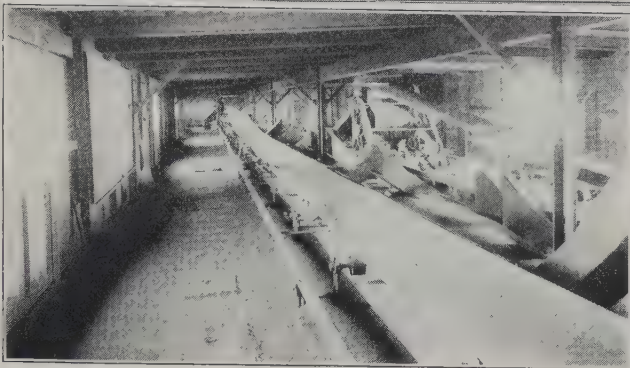


Are you interested in a belt which will not only give maximum service handling grain, but will also cause no trouble from bucket bolts pulling out, plies separating, or edge abrasion?

Write us for sample and convincing "Reasons Why" REXALL BELTING will fill this specification.

Imperial Belting Company, :: Chicago

There is nothing in Goodrich Advertising
That isn't in Goodrich Goods



The belt that makes your conveyor system efficient

Grain conveyors equipped with Goodrich Grainbelts are more efficient because Goodrich belts run straight and true and do not spill.

Goodrich Grainbelt

delivers by far the most economical service in the long run.

The duck is of special weave to give rigidity lengthwise and flexibility crosswise. The friction is of substantial quality—the cover is high quality rubber of a proper thickness, all combining to produce a well-balanced belt.

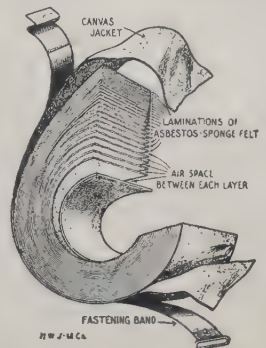
Write for special folder and prices



The B.F. Goodrich Company
Makers of Goodrich Tires and
Everything that's best in rubber
Factories AKRON, O.
Branches in all Principal Cities

Won't Crack, Break or Lose Its Insulating Value from Vibration or Rough Usage

The temperature of high pressure pipes soon dries out molded and ordinary pipe coverings. Then expansion and contraction of the pipes and vibration reduce the carbonate of lime (chalk) and other like materials, with which these coverings are filled, to a powder. This powder settles at the bottom of the canvas covering, leaving the top insufficiently covered, and gradually sifts through the canvas. Thus what little insulating properties they originally had are quickly lost.



J-M ASBESTO-SPONGE FELTED PIPE COVERING

retains its high insulating properties indefinitely. Pipes covered with it can even be walked upon without injury. This is because it is made of many layers of fine paper, composed of pure, long-fibred Asbestos and a small quantity of granulated sponge. It has been found in perfect condition after more than fifteen years' service on underground pipes. Can be taken off pipes and replaced without injury.

Ask Nearest Branch for Sample and Booklet

H. W. JOHNS-MANVILLE CO.

Albany
Baltimore
Boston
Buffalo
Chicago
Cincinnati

Cleveland
Dallas
Detroit
Indianapolis
Kansas City
Los Angeles

Louisville
Milwaukee
Minneapolis
New Orleans
New York
Omaha

Philadelphia
Pittsburgh
San Francisco
Seattle
St. Louis
Syracuse 924

The Gerber Patent Flexible Chain Telescope Car Loading Spout



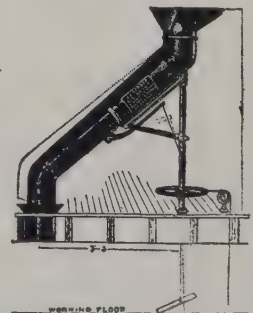
Will last longer than three ordinary flexible spouts because it is made of metal equal to saw blade.

Order one and be convinced.

Swivel Joint at S.

The Gerber Improved Distributing Spouts

Are used in all parts of the country because they are made by skilled workmen, have a world-wide reputation, and will prevent the mixing of grain.



BEWARE OF IMITATIONS.

FOR SALE BY

J. J. GERBER, Minneapolis, Minn.

SET OF BOOKS for Grain Dealers

Form 380 Record of Wagon Loads Bought } PRICE, \$3.00
Form 385 Record of Car Loads Shipped }
GRAIN DEALERS JOURNAL, 315 So. La Salle St., Chicago

CYCLONE

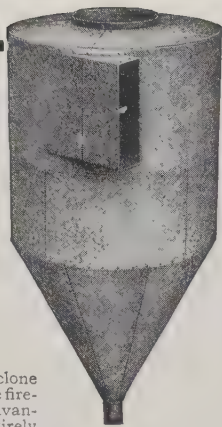
Dust
Collecting
Systems
for your
elevator

Cyclone Dust
Collector
for your
cleaners

Our Improved Cyclone Dust Collectors are fire-proof. Built of galvanized steel. Entirely automatic. Have no moving parts. No braces or projections for materials to catch or lodge. Take less power. Increase capacity of fans.

Write today for further information.

CYCLONE BLOW PIPE CO.
Chicago, Ill.

**IT IS 40 PER CENT**

More Efficient—With 75%
Less Friction—That's All.

If this interests you
write for our catalog.



**THE NO-BACK-PRESSURE
"1905"**

Cyclone Dust Collector

The Knickerbocker Co.
JACKSON, MICH.

Write for our Catalog—Save Money.

Outlasts
Stone

The Adel Vitrified Tile Corn Crib

Cheaper Than Wood

Yet Stronger, Better and 10 Times as Durable

Mr. Farmer, before you buy or build a corn crib of any kind, write for our free book and read the facts about the "ADEL." We can save you money and furnish you a corn crib that has no equal on earth—one that has **17 distinct advantages over any other.** The "ADEL" is constructed throughout with the famous Adel Vitrified Hollow Tile—more durable than the best stone—which makes this crib absolutely

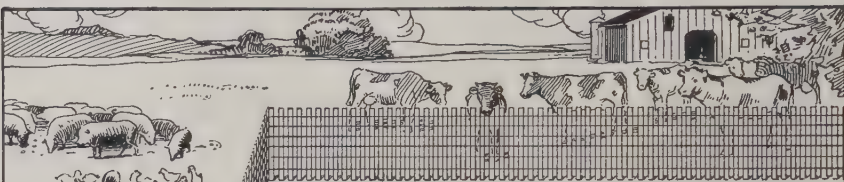
RAIN AND RAT PROOF

Cannot rot. Because of its cylindrical construction—strongest type known—it cannot rack in high winds. Nearly $\frac{3}{4}$ entire surface open, affording perfect ventilation which prevents moulding of corn, and grades it better. Filled without moving elevator; emptied with $\frac{1}{4}$ the shovels. No cross braces; simple and easy to erect; absolutely permanent. It is the **one** corn crib "without a single fault." We also furnish plans for combining grain bins with corn cribs. Send for free book.

ADEL CLAY PRODUCTS COMPANY,

Dapt.

Adel, Iowa

**Makes a Corn Crib or a Fence in a Jiffy**

Just think of putting up a full sized corn crib in 10 minutes! Then when the crib is empty, use the material for making fences—then a crib again—that's what you can do with the

Denning Portable Corn Crib

And it *costs less* and is the *handiest* material for the purpose, too. The cribbing comes in sections—each section 4 feet high—can make a crib 12 to 16 feet in diameter—8 feet high—1 $\frac{1}{2}$ or 2 inches between slats. Best storage for fodder, either shredded or in full stocks. You feed the stuff right out of the crib.

The slats are spaced close enough to protect corn from stock, yet admit free circulation without exposing to weather or bleaching. You ought to know more about this cribbing material. Let us quote prices and send you literature telling in full how it will save time, money and labor. Send us your name or a postal or letter today.

The Denning Motor Implement Co. Dept. 7 Cedar Rapids, Iowa

DIRECT REDUCTION TABLES

for

**Wheat, Buckwheat,
Barley and Timothy**

reduce any weight of wheat from 100 to 5090 pounds by ten-pound breaks direct to bushels of 60 lbs.; 60 lbs. with 1 lb. dockage; 60 lbs. with 2 lbs. dockage; 60 lbs. with 3 lbs. dockage; 60 lbs. with 5 lbs. dockage; Timothy Seed, 45 lbs.; Barley, Hungarian Grass Seed and Corn Meal, 48 lbs.; Barley, 50 lbs. and Buckwheat, 52 lbs.

Nine tables, printed from large type on card board, size 10 $\frac{1}{2}$ x11 $\frac{1}{2}$ inches, and the equivalent in bushels of each weight is shown beside it, so it is impossible to get the wrong reduction. Price, 50 cents.

GRAIN DEALERS JOURNAL

315 S. La Salle Street

CHICAGO, ILL.

**Direct
Reduction Tables
for Corn and Oats**

Reduce any weight of corn from 100 to 5090 pounds, by ten-pound breaks, direct to bushels of 56 lbs.; 56, with one pound dockage for dirt; 68, 70, 72, 75 and 80 lbs. The 56-lb table may also be used for reducing rye and flax, seed to bushels. Oats are reduced to bushels of 32, 33 and 35 pounds.

Ten tables printed from large type on card board, size 10 $\frac{1}{2}$ x11 $\frac{1}{2}$ inches, and the equivalent in bushels of each weight is shown beside it, so it is impossible to get the wrong reduction. Price, 50 cents.

Grain Dealers Journal

315 S. La Salle Street

CHICAGO, ILL.

**INTERNATIONAL MOLASSES FEEDS**

INTERNATIONAL SPECIAL MOLASSES DAIRY FEED

INTERNATIONAL "CLIMAX" MOLASSES FEED

INTERNATIONAL SUGARED CATTLE FEED

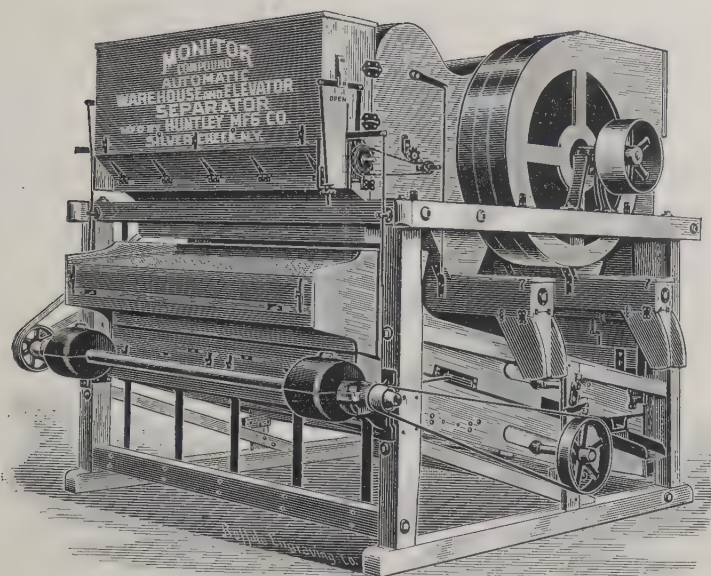
INTERNATIONAL SUGARED HOG FEED

These feeds are unequalled in nutritive value; sell on sight and are repeaters wherever sold. We give exclusive agency to live dealers. Write us now and secure sole agency for your vicinity.

INTERNATIONAL SUGAR FEED COMPANY

MINNEAPOLIS, MINN.

Mills at Minneapolis and Memphis.



Heaviest built, finest fitted, smoothest running, easiest regulated, most accessible mechanism—a thing apart from any other cleaning machine.

Monitor

Automatic Receiving Cleaner

Its best features
protected by patents

You simply can't clean your grain as cheaply any other way

By actual figures, compiled by grain dealers with years of experience in cleaning all kinds of grain, and who had in their cleaning houses other machines set beside these new type of "Monitors," we proved conclusively that this "automatic" machine cleans grain *cheaper* and cleans grain *cleaner* than anything ever designed for receiving cleaning work. We demonstrated this machine's wonderful ability in hard-service elevators where continuous runs of days and nights have been made. We have proven conclusively that with this *exclusive (patented)* "Monitor" Automatic Cleaner the cleaning of all kinds of grain is reduced to a science—that the operator using it is master of every cleaning problem.

**The most
in new
improvements**

Unknown to any other type of grain cleaner are many features of this machine, things that will grip the interest of every grain dealer who studies grain cleaning economics. This machine is automatic, actually takes care of itself, operating day in and day out without care or attention on the operator's part. It is light running, and requires less power than other cleaners which cannot anywhere near equal its work. For durability this machine ranks first—six of them have each seen over two thousand days constant, severe service without a cent for repairs, and are today in perfect condition. Unquestionably we can show you a marked difference in your present shrinkage loss—we guarantee a *saving* over your present rate of good grain sacrificed by you in making separations with your present cleaner. The three largest cleaning machinery contracts closed in the past year were given for this "Monitor" Automatic Receiving Cleaner. In each case these go into gigantic elevators where efficiency was considered first and last; two of these large contracts were placed with us without other grain cleaner manufacturers being asked to bid on their makes of cleaners, the third contract was placed for fifteen 4,000-bushel capacity "Monitors," although other makes of cleaners could have been purchased for less money; these are the straws which show the way the wind blows in modern cleaning equipment of today—think it over; get posted on this new machine.

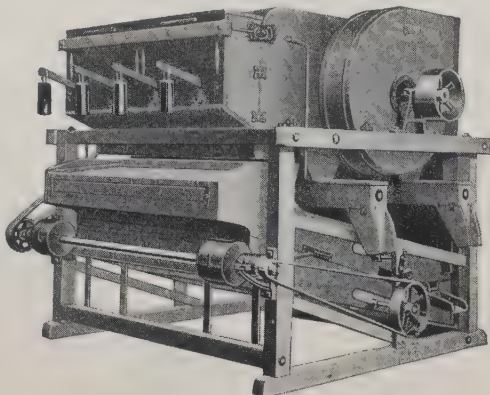
**The choice
of most
of our
largest new
elevators**

**We only make
123 Styles of Cleaners**

HUNTLEY MFG. CO., Silver Creek, N.Y.

CHICAGO, ILLINOIS—F. M. Smith, 501 Traders Bldg.
MINNEAPOLIS, MINN.—A. F. Shuler, 316 Fourth Ave. So.
PORTLAND, OREGON—C. J. Groat, 601 Concord Bldg.
ST. LOUIS, MO.—S. J. McTiernan, 25 Merchants Exchange
WICHITA, KANSAS—J. B. Ruthrauff, 301 So. Lawrence St.

Eureka
Compound Drive
ELEVATOR SEPARATOR
 (Self-Balancing)



HEAVY DUTY CONSTRUCTION

Equipped with Automatic Eccentric Oilers
 Automatic Sieve Cleaners
 Self-Oiling or Ball Bearings

The Sign
 of Quality



THE S. HOWES COMPANY
 SILVER CREEK, N.Y.



The Sign
 of Quality

Eureka Service

Day in and day out the Executive Officers of this Company, ably assisted by their staff of skilled factory and business managers, work untiringly to give you **QUALITY**.

With the welfare of the customer always in mind, no stone is left unturned to produce a 100% efficient machine, and **SERVICE** in all branches of the business.

The most careful attention is given to the selection of materials. Never is this most important duty left to the inexperienced, but it is always handled by those specially qualified by long experience.

Not only materials, but the men who have to do with the design, manufacture and selling of our machines, are each and every one selected with the thought ever in mind that our customers be served—

"Every Minute on the Minute."

Catalogue is free—send for it.

F. E. DORSEY, 4015 Euclid Ave., Kansas City Mo.
 J. Q. SMYTHE, 1034 W. 32d St., Indianapolis, Ind.

REPRESENTATIVES
 WM. WATSON, Box 661, Chicago, Ill.
 GEO. S. BOSS, Jefferson Hotel, Toledo, O.

W. M. MENTZ, Sinks Grove, W. Va.
 E. A. PYNCH, 311 3d Ave., So., Minneapolis, Minn.

THE NO. 39 CLIPPER

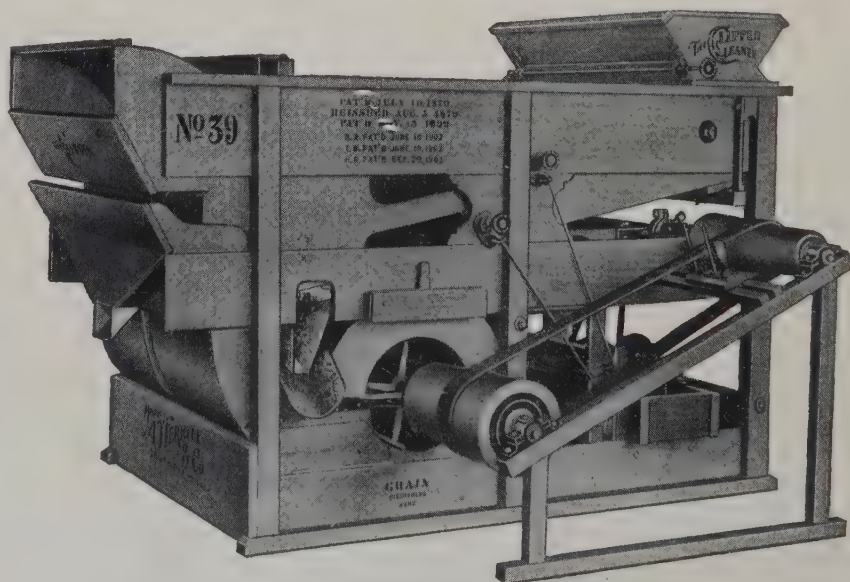
Cleaner with Traveling brushes and special air controller is one of our most popular and best selling grain and seed cleaners.

The "CLIPPER" excels all others in the minimum of power required, construction and durability, class of work it will do, small amount of attention and its adaptability to the work required.

A "CLIPPER" will clean all kinds of grain, seeds, beans or peas equal to any special cleaner designed especially for one kind of work.

We have placed this machine in a large number of elevators all over the country, and never yet has one of them failed to give satisfaction. If you are looking for something good, this Cleaner will suit you.

Let us Send Catalogue.



A. T. FERRELL & CO., SAGINAW, W. S., MICH.

GRAIN ELEVATOR BUILDERS



Especially Designed for Economy
of Operation and Maintenance
LINCOLN, NEB.

DO YOU WANT?

a modern and up-to-date
elevator? Then write to

J. A. H. Whaley, Sedalia, Mo.

"Builder of Modern Elevators"
Plans and Estimates on request.

The C. A. Lowe Construction Co.
Entd - Okla.

Wants to Figure on Your Next Elevator

Plans and Specifications a Specialty

J. A. HORN FRANKFORT, IND.

624 Board of Trade Bldg., Indianapolis, Ind.

Contractor, Designer and Builder of

Grain Elevators, Mills & Warehouses

Wood, Concrete or Steel

Are you going to build or repair
Your Elevator

For the kind that give satisfaction, write,

W. H. CRAMER

ST. PAUL NEBRASKA NO. PLATTE

**STEEL TANKS
PLATE WORK**

WM. GRAVER TANK WORKS
EAST CHICAGO INDIANA

R. M. Van Ness Construction Company

Designers and Builders of

MODERN GRAIN ELEVATORS

Plans submitted. Correspondence solicited.

Offices at

LINCOLN, NEBR., and FAIRBURY, NEBR.

**We build elevators
GODFREY & SON**

LET US FIGURE ON YOURS
EL RENO, OKLA.

A. F. ROBERTS
ERECTS ELEVATORS
CORN MILLS
WAREHOUSES

FURNISHES PLANS
ESTIMATES
MACHINERY

SABETHA, KANSAS

Decatur Construction Co.

Incorporated

Designers and **GRAIN ELEVATORS**
Builders of

COAL HANDLING PLANTS, WAREHOUSES, ETC.

Correspondence Solicited

510-512 Wait Bldg. DECATUR, ILL.

I. J. HERRING

Contractor and Builder of Grain Elevators.
20 years' experience. Estimates furnished.

HASTINGS, NEB.



C. E. Bird & Co.

MINNEAPOLIS

**Elevator and Mill
Builders**

16 Years'
Practical Experience

GRAIN ELEVATOR CONSTRUCTION COMPANY

Builders of Grain Elevators, Flour Mills and Buildings of Every Design

A. J. CLARK, Manager

WILLISTON, NORTH DAKOTA

Advertising

Must first attract, then interest, and
finally convince. Keep advertising and
the country shipper will give you the
preference.

Elevator Transfer Houses

Repair and Remodeling Only

A. G. BOGGESS CO.

SIOUX CITY, IOWA

No Job Too Big, None Too Small

Shippers' Record Book No. 20

is designed to facilitate the book-keeping of grain shippers and to minimize the labor of keeping a complete record of each car shipped. The book is 9 1/2 x 12 inches and contains 100 double pages of superior paper. It is well bound, ruled in two colors, and the column headings clearly printed. Spaces are provided for records of 2900 car loads.

At top of left hand page, in bold-faced type, are the words, "IN ACCOUNT WITH" and at top of facing page, is dotted line for name of firm to whom grain is sold. It is intended that records of shipments to each firm shall be kept separate. The column headings on the facing pages are: Date of Sale, Date of Shipment, Car No., Initials, Amount Sold, Kind of Grain, Weight, Price, Draft, Remarks, Date Returned, Weight Returned, Overdrawn, Net Proceeds, and Balance.

Wide columns are provided for recording these facts under the respective heads.
Price \$1.75. Address,

GRAIN DEALERS JOURNAL, La Salle Street, Chicago, Ill.

Receiving and Stock Book

Form 321 is designed for keeping a record of each kind of grain received at a country elevator in a separate column so that the buyer by adding up columns may quickly determine the number of bushels of each kind of grain on hand. Columns are also provided for date, name, gross, tare, net pounds, price, amount paid and remarks.

The book is printed on Linen Ledger paper, well bound with leather back and corners. Each of its 160 pages is 9 x 12 inches, giving room for recording 3200 wagon loads.

Order Form 321 . . . Price, \$1.50

GRAIN DEALERS JOURNAL, La Salle St., Chicago, Ill.

Burrell builds the best.

Burrell builds the best of any type of an elevator in wood or concrete construction. Plans and estimates a specialty. Write your wants to

**Burrell
Engineering &
Construction
Company**

1102-8 Webster Bldg.
Chicago
(Opp. Board of Trade)

827 Chamber of Commerce
Detroit, Mich

404 Iowa Loan & Trust
Des Moines, Ia.

111 W. North St.
Indianapolis, Ind.

Fort William, Ont.

GRAIN ELEVATOR BUILDERS

REAL Builders of REAL Elevators

We can build at very low cost, if you want that kind of an elevator. Does it pay?

Wood or Concrete Construction.

YOUNGLOVE CONSTRUCTION CO.

218-220 Grain Exchange, SIOUX CITY, IOWA
WESTERN OFFICE, Box 326 Harlowton, Montana

CAR ORDER BLANKS

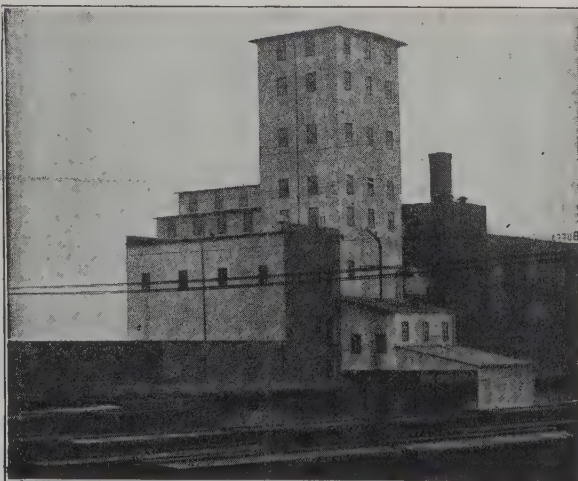
FORM 222 C. O. So many grain shippers are experiencing difficulty in obtaining cars, many are now keeping a carbon copy of each order for cars, in order to keep an accurate record of their efforts to obtain cars, to facilitate proving delay by railroad company and to encourage railroad agents to heed shippers' needs. Car order blanks are put up in books of fifty, with machine perforations, so that order can be torn out and sent to carrier's agent and carbon copy be retained in book. Fifty orders and 50 duplicates in each book. **Price, 50cts.**

GRAIN DEALERS JOURNAL

La Salle Street

Chicago, Ill.

Reinforced Concrete Grain Elevator, Feed Mill and Warehouse, built in 1910 for Buffalo Cereal Co., at Buffalo, N. Y.



Fireproof Construction Elevators, Mills and Warehouses. We prepare plans and make lump-sum price for the complete work.

MONARCH ENGINEERING CO.

Chamber of Commerce

BUFFALO, N. Y.

Said Farmer Gray to Banker Brown,
We should have an elevator in this town;
Said Farmer Gray to Banker Brown, pray
How in the world could we make it pay.

The proper way to make it pay,
Said Banker Brown to Farmer Gray,
Is to call to our aid an experienced man
Who can draw and figure, design and plan

And reduce to a minimum, the cost of a Plant,
The insurance, the labor and all things like that;

The profits are sure with conditions like this,
And worry and troubles we'll certainly miss.

The Proper Parties

To Call



WICHITA

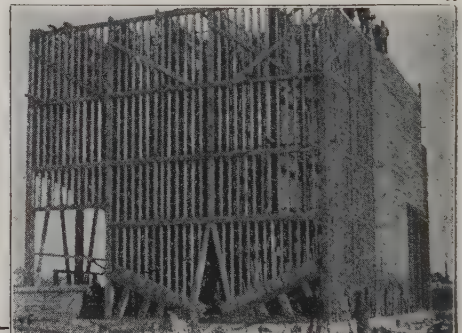
KANSAS

From a ten-penny nail

to the largest timber

every part of a
**RELIANCE
ELEVATOR**
is installed for a purpose, and installed so it will serve its purpose. Plans and estimates.

**Reliance
Construction Co.**
Board of Trade
INDIANAPOLIS



PEERLESS-V-BELT

The only high speed chain drive operating without lubrication.

Can be run at very high speeds on very short centers.

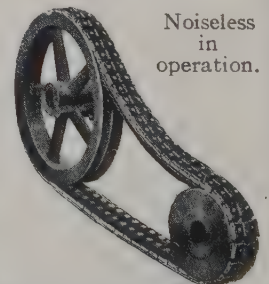
Not affected by moisture, dust or grit.

Principle of wedge being fully utilized assures non-slippage.

The only belt for that short drive.

Write today for more about it, as shown in Booklet 115.

Peerless-V-Belt Co.
Chicago New York Cedar Rapids



Noiseless
in
operation.

BOOKS for GRAIN DEALERS

ACCOUNT BOOKS, SCALE TICKETS, GRAIN TABLES, SHIPPING BOOKS, CIPHER CODES, GAS ENGINE BOOKS, ETC. Tell your wants to

GRAIN DEALERS JOURNAL, CHICAGO, ILL.

GRAIN ELEVATOR BUILDERS

Morley Bros., Haden & Plott
DESIGNERS AND CONTRACTORS
GRAIN ELEVATORS
WICHITA - - KANSAS

ELEVATOR BUILDERS
and general contractors. Modern and
up-to-date elevators. Plans and speci-
fications on request.
NAPPER & PERSSON
LEWISTOWN, MONT.

Grain Elevators
Warehouses Seed Houses
WOOD OR FIRE PROOF
T. E. IBBERSON
Elevator Builder
Minneapolis Minn.

L. J. McMILLIN
Engineer and Contractor of
GRAIN ELEVATORS
Any Size or Capacity
627 Board of Trade Bldg., Indianapolis, Ind.

GRAIN ELEVATOR
Designing and Construction
Made a Specialty
WITHERSPOON-ENGLAR CO.
MONADNOCK BLOCK, CHICAGO

FRANK KAUCHER & SON
Contractors Mills and Elevators
Wood and Concrete
ST. JOSEPH - MISSOURI

L. O. HICKOK & SON
BUILDERS
UP-TO-DATE
Elevators
WOOD OR FIREPROOF
Get Our Estimates
619 Flour Exchange, MINNEAPOLIS

H. Phone M. 8037.
Heidenreich
Concrete
Grain
Tanks
U. S. Pat. No. 667172
One Hundred Million Bu. Capacity in Use Today.
Plans, Specifications, Supervision
Consulting Engineers
E. Lee Heidenreich & Sons, Elevator Builders
Dwight Bldg., Kansas City, Mo., U. S. A.

JOHN S. METCALF CO.
GRAIN ELEVATORS
ENGINEERS CONSTRUCTORS
Plans and Specifications a Specialty
Montreal, Que. Chicago, Ill.

MACDONALD ENGINEERING CO.
DESIGNERS AND BUILDERS OF
GRAIN ELEVATORS
MONADNOCK BLDG., CHICAGO, ILL.

O. J. LEHRACK Contractor of
Mill Buildings and Concrete Storage Tanks
KANSAS CITY, MO.

ACCOUNT BOOKS FOR SALE
BY
GRAIN DEALERS JOURNAL, CHICAGO



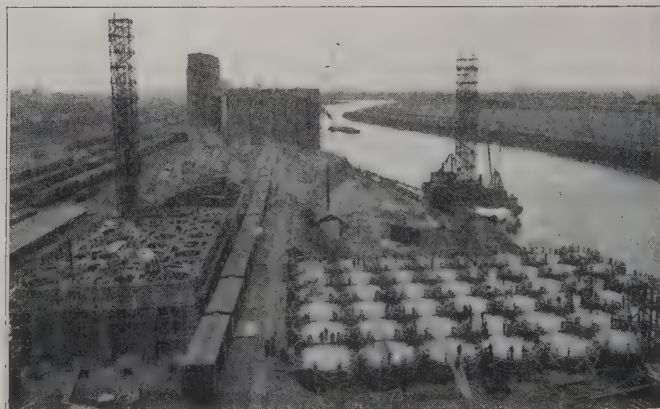
Grand Trunk Pacific Elevator at Fort William, Ontario.
Capacity 3,500,000 Bushels.

JAMES STEWART & CO.
CONTRACTORS
DESIGNERS AND BUILDERS OF
GRAIN ELEVATORS
IN ALL PARTS OF THE WORLD

GRAIN ELEVATOR DEPT., 1811 Fisher Bldg., Chicago
W. R. SINKS, Manager R. H. FOLWELL, Engineer

We also do General Contracting and have Offices
in the following cities. Write or call on any of them

New York, Hudson Terminal Bldg. New Orleans, La., Hibernia Bk. Bldg.
Pittsburg, Pa., Henry Oliver Bldg. Denver, Colo., First Nat. Bank Bldg
San Francisco, Cal., 709 Mission St. Canada, Eastern Township Bk. Bldg.
Canadian Stewart Co., Ltd., Montreal Port William, Ontario, Canada
St. Louis, Mo., Bank of Com. Bldg.



THIS Fire Proof Grain Elevator
now under construction for the
Fort William Elevator Company, Ltd.,
at Fort William, Ontario.

**The Barnett & Record
Company**

Minneapolis - - - - Minnesota
Fort William - - - - Ontario
Duluth - - - - Minnesota

Write us for Designs and Estimates

RAILROAD CLAIMS COLLECTED

**"The Worry-
Less Way"**

**ROBERT W. WILES
& COMPANY**

Suite 805 Gloyd Bldg.
KANSAS CITY, MO.

**Write Us for
Information**

REFERENCES:
Produce Exchange Bank,
The Packer, and
Our Clients.

You would not store your grain in an elevator if you knew that it would have no protection from rain, snow, fire, etc. Great care is always taken to avoid these losses. Why not investigate your weighing loss? We invite your investigation into the merits of

"The STANDARD" Scales

"The Scale Standard"

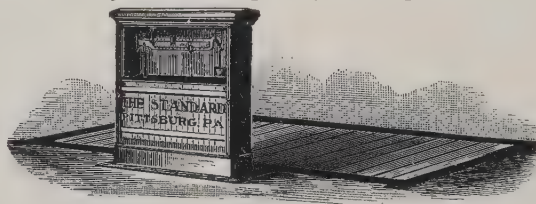
It is just what the name says.

The Standard for Accuracy, Durability, Reliability and High Grade Construction.

Universally used by the largest scale users in the world.

They consider quality, not quantity. Take that into consideration

when again in the market. We manufacture scales from $\frac{1}{16}$ oz. to 200 ton. Also special scale for particular requirements. Ask for catalog No. 120.



THE STANDARD SCALE & SUPPLY CO.

Manufacturers of High Grade Weighing Machinery

243-245 Water St., Pittsburgh, Pa.

CHICAGO, 1345-47 Wabash Ave. INDIANAPOLIS, 807 Hume-Mansur Bldg. CLEVELAND, 1547 Columbus Road

Milwaukee Bags

Our "Aurora A" is a full size 2 bu. 16. oz. cotton seamless sack—strong and durable in use. We are selling at prices which will interest you. We make all sizes of Jute Grain Bags—write for prices. Why not Milwaukee Bag Co., Milwaukee, Wis.

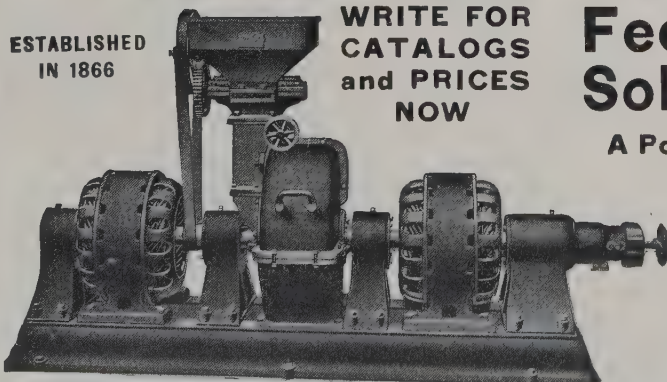
"Monarch" Ball Bearing

ESTABLISHED
IN 1866

**WRITE FOR
CATALOGS
and PRICES
NOW**

**Feed Grinders will always
Solve All Your Troubles.**

A Positive Saving of 25% or More in Power.



"Monarch" Ball Bearing Direct Motor Driven Attrition Mill
We manufacture the Largest, Most Improved, and Most Complete Line of Machinery for Flour and Feed Mills, Grain Elevators, etc., in the World.

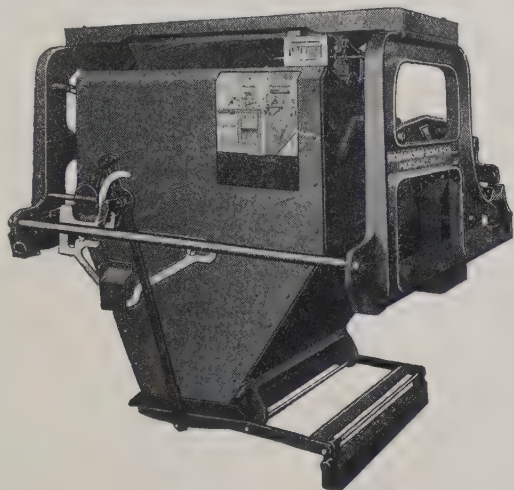
Don't Forget!

that we make Direct connected electric motor, as well as Belt Driven Ball Bearing Double-head or Single-head Feed Grinders and Corn Crackers, Our Specialty. You cannot afford to operate your plant without one of these "Monarch" mills, because of the large amount of power saved or the tremendous increase in capacity that you will obtain with present power. Guaranteed to never get out of tram. **TRY ONE OF THEM NOW**

SPROUT, WALDRON & CO., MUNCY, PA.

WESTERN OFFICE: 9 South Clinton Street, CHICAGO
SALES DEPARTMENT, REPRESENTATIVES AND BRANCH OFFICES AT ALL PROMINENT POINTS

THE RICHARDSON



placed on the working floor or the cupola of an elevator will instantly appeal to you grain dealers who are looking for an accurate and simple scale to weigh your grain to cars. It's the

Even Balanced Beam Scale

by nature's laws the simplest and most accurate method of weighing. It weighs and records **auto-**
matically too—saves you hours of time

over any other method of weighing. You will be interested in this scale for *your* elevator. Why not have the Richardson man in your state look over your elevator—or if you prefer, write for a book specially written on the subject by

RICHARDSON SCALE COMPANY

1909 REPUBLIC BUILDING, CHICAGO

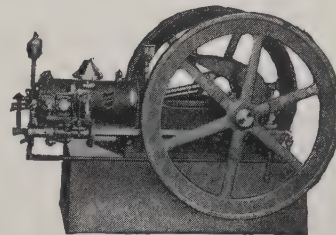
PASSAIC, N. J. MINNEAPOLIS, MINN. WICHITA, KAS. Box 305, OMAHA, NEB.

HOWE SCALES



Of the Protected "Ball Bearing" kind, that weighs correctly and wears Everlastingly.

Automatic Grain Scales



Otto Gasoline Engines Hall's Safes and Vault Fronts

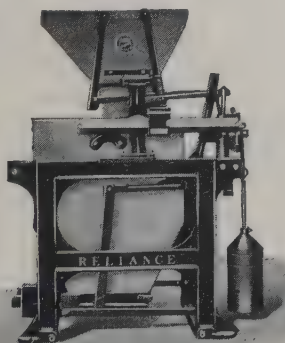
ELEVATOR MACHINERY AND SUPPLIES

WRITE FOR CATALOG "K"

HOWE SCALE CO. OF ILL.
418-420 So. Third St., Minneapolis, Minn.

MARK OUR WORD!

In the very near future an AUTOMATIC SCALE will not be recognized unless it has a RESERVE.



If you expect to buy an Automatic Scale that will stand inspection next year and for years to come, buy one with a RESERVE.

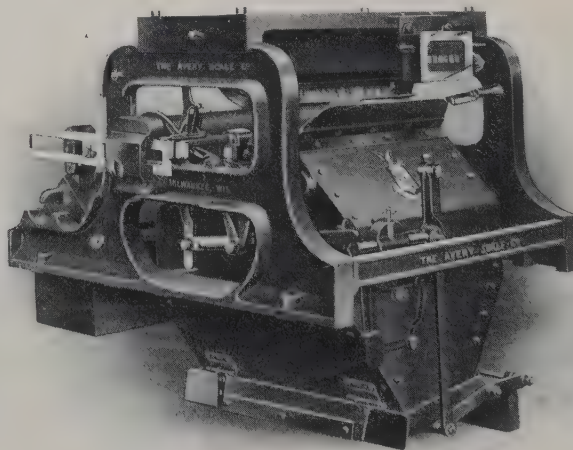
The RELIANCE is the first and, in fact, the only automatic scale on the market today equipped with a RESERVE.

Send for our latest catalog which will tell you all about it

National Automatic Scale Co.
WEST PULLMAN CHICAGO

There's much to be said about the **Avery Automatic Scale**, but there's little, or nothing to be done.

The Avery Scale gives you an accurate record of every pound of coming in or going out of your elevator.



The principle, design, construction and operation of an Avery is right. Let us prove it. Write

AVERY SCALE CO. NORTH MILWAUKEE, WIS.

723 Monadnock Bldg., Chicago, Ill.
1600 U. S. Express Bldg., New York City
Room A-1, Chamber of Commerce, Minneapolis, Minn.

425 Board of Trade, Indianapolis, Ind.
Omaha, Nebraska
202 Boston Bldg., Kansas City
506 McGreevy Bldg., Winnipeg
310 Merchants Exhg., St. Louis

BOWSHER

(Sold with or without Elevator)
CRUSH ear corn (with or without shucks) and **GRIND** all kinds of small grain. Have Conical-Shape Grinders. Different from all others.

LIGHTEST RUNNING

(Our circular tells why)
 Handy to Operate. Ten sizes 2 to 25 Horsepower.

FREE Booklet on "Values of Feeds and Manures."

The N. P. Bowsher Co.
 South Bend : : Indiana

FEED MILLS



NEW ERA MANLIFT



Users consider our "New Era" Manlifts to be the best—always reliable. We make

**HAND ELEVATORS
 POWER ELEVATORS
 DUMBWAITERS
 INVALID HOISTS
 BOX HOISTS, ETC.**

Write for prices when needing anything in our line

Sidney Elevator Mfg. Co., Sidney, Ohio
 Mention this paper.

SUCCESS SAFETY MAN LIFT



**ATTENTION,
 ELEVATOR CONTRACTORS!**

Write us for our Special Proposition for 1913

DO IT NOW

HASTINGS

**Foundry & Iron Works
 HASTINGS NEBR.**

Ball Bearing Safety ManLift



C. I. Boots
 Distributing Spouts
 Flexible Spouts
 Dump Irons
 Friction Clutches
 Pulleys
 Bearings
 Sprocket Wheels
 Sprocket Chain

Complete Elevator Equipment

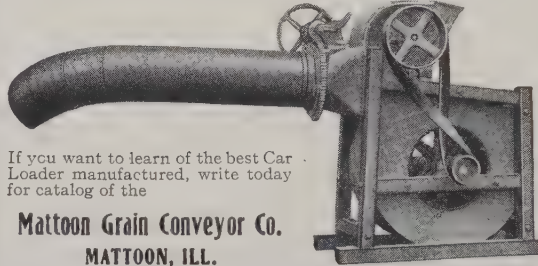
Order Now, Prices will be Higher Later

Murphy Manufacturing Co.
 KANSAS CITY MISSOURI

Grain is actually improved by its passage through a

MATTOON CAR LOADER AND GRAIN CLEANER

The grain being carried by a regulated air force, naturally the lighter matter such as chaff, dust and straw would be carried out by the spent air, and the clean grain lodge in the car.



Grain also traveling in a cool air current would naturally become cooled.

The loading spout continuously traveling in a semi-circle means an even distribution and perfect stirring of grain.

These facts, and that the Mattoon loads any car to full capacity without milling or cracking the grain, assures a PERFECT CAR LOADER.

If you want to learn of the best Car Loader manufactured, write today for catalog of the

Mattoon Grain Conveyor Co.
 MATTOON, ILL.

Link Belt Supply Co.

Minneapolis, Minn.

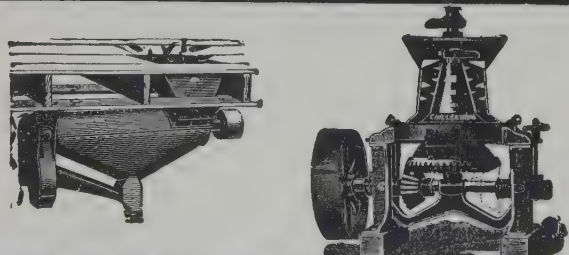
Manufacturers of

The Latest MAN LIFT with wire rope guides, Distributing and Flex Spouts, Boot Pans and Wagon Dumps.

Complete Elevator Equipments a Specialty

Write for New Catalogue just out.

Triumph Corn Sheller and Crusher



THE C. O. BARTLETT & SNOW CO.
 CLEVELAND, OHIO, U. S. A.

For Old or New Elevators



For Working Floor or Cupola

Fairbanks Automatic Scales

CONTINUOUS WEIGHERS

Have only 1/4 of the counterpoise weight of other scales, therefore 75% less pivot wear. Less vibration, less noise, smoother running due to operating under lighter "dead weight"

DURABLE ACCURATE

Can be tested while operating. Write us for catalog No. 550A25.

Fairbanks, Morse & Co., 900 S. Wabash Ave.
 Chicago, Ill.

Oil and Gasoline Engines, Feed Grinders, Electric Motors and Generators, Water Systems, Electric Light Plants, Wagon and Portable Scales.

YOUR BUSINESS

can be introduced to the progressive grain dealers of the country under most favorable circumstances (and you will be in good company) by the judicious use of space in the

GRAIN DEALERS JOURNAL, OF CHICAGO

THE ELLIS DRIER COMPANY

DRYING
Engineers and Contractors

We manufacture a high class machine particularly adapted to mill and elevator use where uniform drying and quality of work is paramount.

Grain Driers Oat Bleachers

734 Postal Telegraph Bldg.
CHICAGO, U. S. A.

Elevator Machinery and Supplies

We carry a large stock and can fill orders promptly.

Grain Cleaning Machinery

We handle a full line and can give you a machine for any kind of work you want to do.

Roll Corrugating and Grinding

The best work—quick service

Write us for Catalog and Prices
on anything you need.

The
Strong-Scott Mfg. Co.
MINNEAPOLIS, MINN.

Northwestern Agents for

Invincible Grain Cleaners,
Richardson Automatic Scales,
Knickerbocker Dust Collectors

**Mention
This
Journal**

When you write to any of our Advertisers; you'll get a prompt reply.

BOUGHT A BOSS CAR LOADER

In 1903, and used it continually ever since.

Read this user's convincing testimonial:—

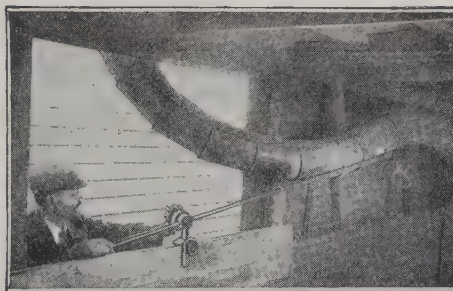
"We bought one of your car loaders in 1903, and have been using it continually ever since. It does just as good work now as it did when we installed it, and we recommend it highly."

SEWARD & RAKESTRAW, OAKFORD IND.

A BOSS CAR LOADER

is the most compact, durable, practical and satisfactory of all car loaders. Let us send you a "Boss" on trial.

MAROA MFG. CO., Dept. 3, Maroa, Ill.



The Englehart Flexible Spout Holder and Carloader

Saves pocketing of dust and dirt and lower grades of grains right in front of car door.

Will grade your grain from one to two points higher on account of even distribution, which pays for itself. Saves time and annoyance of crawling into car when loading.

Fully guaranteed.

Write now for descriptive matter and references.

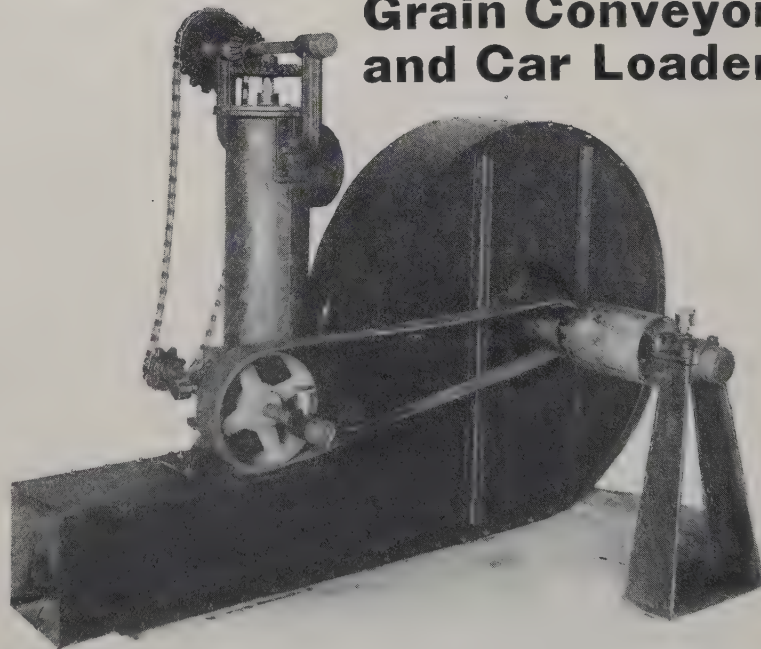
"Good proposition for Agents."

610 Flour Exchange

L. E. TAYLOR & CO., Minneapolis, Minn.

BERNERT

Grain Conveyor and Car Loader



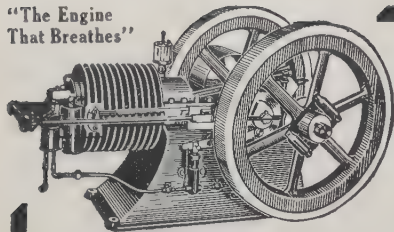
The Bernert Grain Conveyor and Car Loader, in a class entirely by itself. It will load cars, trim boats, convey on the level, incline, around angles, or elevate. Will not damage any grain and will deliver the material where desired. By installing the BERNERT for any purpose in handling grain or feed, you will have a machine that does the work right and which will adapt itself to the building and conditions. Machine sent on trial. Write for catalog No. 5 today.

BERNERT MFG. CO.

3309 North Avenue,

MILWAUKEE, WIS.

"The Engine
That Breathes"



THE GADE "BIG SIX"

The Gade Air Cooler for Your Elevator

Twelve Months Service Every Year!

Quality Built — Easily Operated — Saves Every Third Gallon of Fuel

Put the GADE AIR COOLER in your Elevator and you will have an efficient, reliable engine that will work for you every hour of the day. It is economic on fuel consumption; always ready, summer or winter; seldom gets out of order and it won't be long before the GADE will save you enough money to pay for itself.

Get our special proposition at once for ELEVATOR MEN.

GADE BROS. MFG. CO., 110 Main St., Iowa Falls, Iowa

SCALE TICKET COPYING BOOK

This book contains 125 leaves of scale tickets, four to a leaf. Each leaf folds back on itself so as with the use of a sheet of carbon to make a complete and perfect copy of the original on the stub which remains in the book. The original tickets form the outer half of the page, so the removal of any ticket does not disturb the others.

Each ticket has spaces for the following record: No., Date, Load of, From, To, Gross lbs., Tare lbs., Net lbs., Net bu., Price per bu., Test, Man On-Off, and Weighers Signature. Size, 9x11 inches. Printed on good paper.

Order Form No. 73. **PRICE \$1.00.**

GRAIN DEALERS JOURNAL, La Salle St., Chicago, Ill.

New Era

New and Rebuilt
**GAS
ENGINES**

of our own
make, thor-
oughly guar-
anteed—8 to
50 H.P. Sim-
ple as the old
steam engine.



Let us know your requirements.
THE PORTSMOUTH ENGINE CO., Portsmouth, Ohio

Gas Engine Books

Operators of gasoline engines who encounter difficulties in the care or operation of gas or gasoline engines will find each of the following books of great assistance.

THE PRACTICAL GAS ENGINEER, by E. W. Longanecker, M. D., Price \$1.00.

THE GAS AND GASOLINE ENGINE, by Norman & Hubbard, Price \$1.00.

THE GAS ENGINE HANDBOOK, by E. W. Roberts, Price \$2.00.

GAS ENGINE TROUBLES AND REMEDIES, by Albert Stritmatter, Price \$1.00.

THE PRACTICAL GAS AND OIL ENGINE HANDBOOK, by L. Elliott Brooks, Price \$1.00.

For any of the above address

Grain Dealers Journal

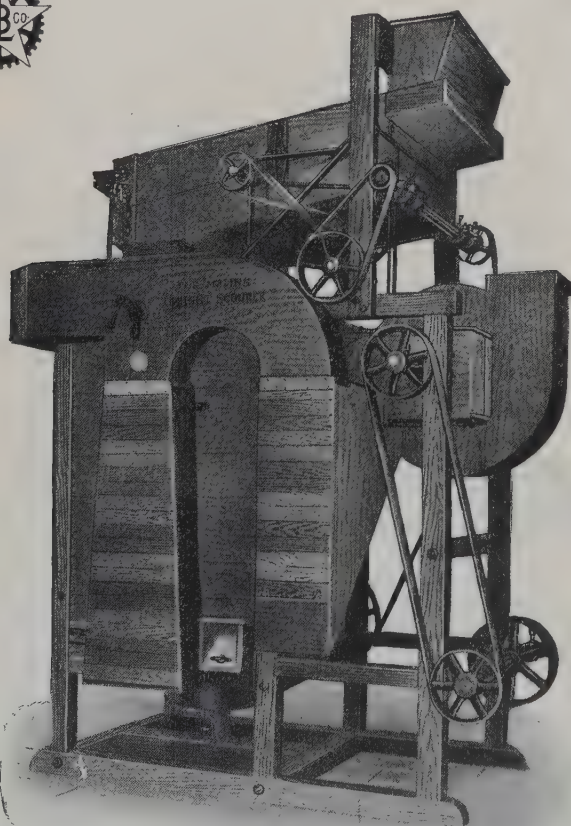
La Salle St.

Chicago, Ill.

A PARTNER

HELP or a POSITION,

can be obtained quickly by placing an ad. in the "Wanted" columns of the Grain Dealers Journal of Chicago. It is the grain trade's accepted medium for "wanted" and "for sale" ads.



A Slow Speed Machine

Because of its slow speed the **MOLINE Upright Oat Clipper** is a favorite wherever used.

It also saves from 40% to 60% of the power required by horizontal machines. Figure out the difference this makes in your fuel bill.

Not only this, but it does the work better, the ends of the berry being clipped the hardest.

Because of its by-pass spout, it is not only a clipper but can be used as a receiving separator.

Give our new shops a trial.

BARNARD & LEAS MFG. CO.

**MILL BUILDERS AND
MILL FURNISHERS**

ESTABLISHED 1860. MOLINE, ILLINOIS, U.S.A.

Wagon Loads Received

A book for the use of country grain buyers in keeping a record of grain received from farmers.

Its column headings are: Month, Day, Name, Kind, Gross and Tare, Net Pounds, Bushels, Pounds, Price, Dollars, Cents and Remarks.

The book is 9½x12 inches, 160 pages, 20 lines to each page, giving room for recording 3,200 loads, printed on Linen Ledger Paper and is well bound in strong board covers with leather back and corners. Order Form 380. Price, \$1.50

GRAIN DEALERS JOURNAL

315 South La Salle St. CHICAGO, ILL.

Record of Cars Shipped

Is a book designed especially for country shippers in keeping a complete record of each car of grain shipped.

It is ruled to meet the needs of the grain dealer's business. The column headings are: Date Sold, Date Shipped, Car No., Initials, To Whom Sold, Destination, Grain, Grade Sold, Their Inspection, Discount, Amount Freight, Our Weight, Bushels, Destination Bushels, Over, Short, Price, Amount, Freight, Other Charges, Remarks.

The book is 9½x12 inches, and contains 160 pages of linen ledger paper, 20 lines to each page, and has spaces for recording the foregoing facts regarding 2,230 carloads. It is well bound in strong boards with leather back and corners.

Order Form 385. Price, \$1.50.

GRAIN DEALERS JOURNAL

315 S. La Salle Street, CHICAGO, ILL.

Set of Books

Complete for \$3.50

A GRAIN RECEIVING BOOK (FORM 12AA)

Grain Register is designed to facilitate the work of keeping a record of weights and number of bushels in wagon loads of grain received at elevator.

Each page is 8½x14 inches, and at top of the 11 columns are printed Date, Name, Kind of Grain, Gross, Tare, Net, Bushels, Pounds, Price, Amount and Remarks.

Each page has spaces for 41 wagon loads and each book has 120 pages, making each book contain spaces for records of 4,920 loads. The book is well printed and ruled on ledger paper, and substantially bound in full heavy canvas covers. Price \$1.50.

A GRAIN SHIPPING BOOK (FORM 14AA)

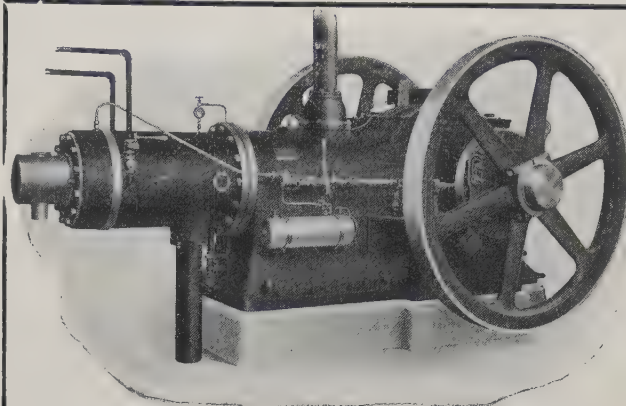
Sales, Shipments and Returns is designed to facilitate recording the essential facts regarding sales, shipments and returns on each sale of grain. Its use will save much time and book work. The pages are 10½x16½ inches, used double. The left-hand pages are ruled for information regarding Sales and Shipments; the right-hand pages for Returns.

Under Sales the column headings are Date, Amount Sold, Price, Grain, Terms. Under Shipments are Date, Car Number and Initial, Our Weights in Bushels, Grade, Route, Rate. Under Returns are Destination, Grade, Difference, Bushels, Over, Short, Gross Proceeds, Freight, Over, Short, Commissions, Other Charges, Total Charges, Net Proceeds, Drafts, Remarks.

It contains 76 double pages, with room for records of 2,204 cars. It is well bound in heavy canvas with leather corners, and printed on heavy linen ledger paper. Price \$2.00.

GRAIN DEALERS JOURNAL

315 So. La Salle St., Chicago, Ill.



Special Heavy Duty "Type C" 60 and 75 H.-P.

42,120,000 TIMES A 30 H. P. MUNCIE OIL ENGINE TURNED OVER WITHOUT STOPPING

Without Carbonizing
Without Repairs

Without Adjustment
Without Breakage

"It ran from the morning of May 1st to the evening of August 25th, a straight run of 117 days, for SNOWDEN BROS. CO., ON AN OIL LEASE near Bridgeport, Ill., using Crude Oil direct from the Wells as Fuel

This is but one of the many MUNCIE OIL ENGINES that have been operating in this manner 24 Hours per day the year round FOR OVER SEVEN YEARS.

Buy the engine that has been in service long enough to prove its true value. It is past the experimental stage. IT RUNS ON ANY LIQUID FUEL—IS SUITABLE FOR ANY SERVICE. YOU ARE PAYING FOR A MUNCIE, SO WHY NOT HAVE IT?

Write us and we will convince you

MUNCIE OIL ENGINE CO.

54 Ohio, Cor. Railroads

MUNCIE, IND., U. S. A.

OUR SYSTEM
SAVES
POWER



U.S. Steel Tank and Pipe Co.
MANUFACTURERS AND CONTRACTORS OF
SHAVINGS and DUST EXHAUST SYSTEMS
FANS, BLOWERS and COLLECTORS

2090 CANALPORT AVENUE

TELEPHONE CANAL 507

CHICAGO, ILL.

SLOW SPEED
LOW POWER
FANS and BLOWERS

LICENSED BACK-
PRESSURE-PROOF
COLLECTOR.

PNEUMATIC Conveying Systems Designed and Constructed. Pipe work a specialty. Anything in Sheet Metal up to and including 10-gauge, either Black or Galvanized. Send us your Plans and Specifications, and we will gladly furnish estimates on your requirements. Our estimators are at your service.

REMEMBER, WE DO WORK RIGHT.

OFFICE SUPPLIES OF ALL KINDS



Invincible

Whatever your need in Ledgers and Journals, Inventory Books, Binders, Stock Certificates, Rubber Stamps, Seals, Check Protectors, Stationery, etc., you can buy it to best advantage, save DELAY—WORRY—EXPENSE—if you deal with

S. D. Childs & Co. 136 So. Clark Street CHICAGO

Wholesale and Retail—Free Catalogue

One of the Most Complete Printing, Lithographing, Book-binding and Stationery Plants in Chicago



Don't

make your drafts through some out-of-the-way bank, make them through this bank, and have them presented the next day.

THE NATIONAL CITY BANK OF CHICAGO

Capital \$2,000,000.00 Deposits \$27,707,859.55
Surplus and Undivided Profits \$744,784.81

Approved by Chicago Board of Trade as a Margin Depository.

We allow 2% Interest on all Margin Deposits.

105 South Dearborn Street
CHICAGO, ILL.

The Automatic Dump Controller



This machine can be attached to old or new drop dump, with but small expense.

Absolutely automatic, out of the sink, and requires no attention. Has control of the dump from the time the trigger is pulled until it settles entirely down.

Its using oil for a cushion makes it self lubricating.

There are hundreds in use over the entire grain section.

Our list of testimonials, and numerous duplicate orders is conclusive evidence of their value.

Satisfaction guaranteed.

For descriptive circular and list of users, write

L. J. McMILLIN
Board of Trade Bldg. Indianapolis, Ind.

"Five (5) Coals That Build and Hold Trade"

Mt. Pelee --- Thick Vein Hocking from Nelsonville

good size, fine burning, no soot, quick delivery in flat bottom cars.

Kentucky Queen

—an ideal coal, all purposes—2 in. Lump, 4 in. Lump, 4x2 in. Egg Hoppers must be taken for quick shipment.

Lone Star W. Va.

Takes the place of Pocahontas or New River, Never more than wood brown smoke, Holds fire as well as any coal mined, Clean burning and low ash, Shipped in 2 in., 4 in., and 4x2 in. Egg, Handles with little slack or breakage, Hoppers must be taken for quick shipment.

Anthracite

Plymouth Red and White Ash

—the best to be had.

Big Vein White Ash

—better than ordinary coals and cost no more.

Write to us

OHIO & MICHIGAN COAL CO.
Main Office: DETROIT

HALL SPECIAL

(Elevator Leg)

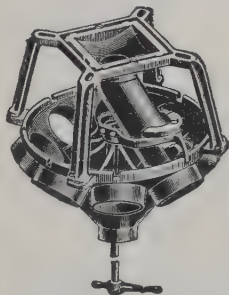
You can get greater results, better service, and have the best equipment, at less original cost, less operating cost, less maintenance cost, less care and trouble with a

HALL SPECIAL

elevator leg than any other method you can adopt.

You can't afford to erect an elevator leg now without first examining into this new arrangement, which is without a rival in economic and advantageous features.

Circular F makes it all clear to you.



Shrewd purchasers use the

HALL SIGNALING DISTRIBUTOR

for its earnings, for its economy. Good sense guides them, and common sense compels us to make exactly what they need. You can safely consult them.

HALL DISTRIBUTOR CO.
222 Ramge Bldg. Omaha, Neb.

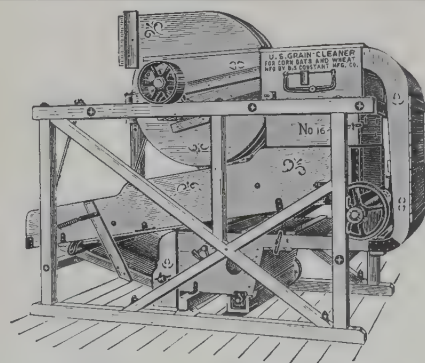
Figure the amount of advertising carried—Can you doubt our ability to **Produce Results**

Put Your Name

where everyone identified with the grain trade will see it and keep it there.

THAT IS IN THE

Grain Dealers Journal
OF CHICAGO



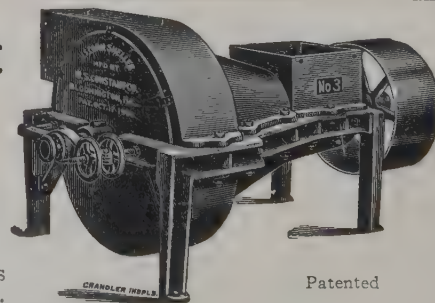
An Ideal Equipment

CONSISTS OF OUR

Self-Locking Rail Dumps, B. S. C. Chain Drag, U. S. Corn Sheller, U. S. Corn, Oats and Wheat Cleaner, Ball-Bearing Safety Manlift, Dandy Turn Heads, Dust Collector, Elevator Boots and Heads.

Any contractor will furnish our specialties if you will specify them. So don't forget.

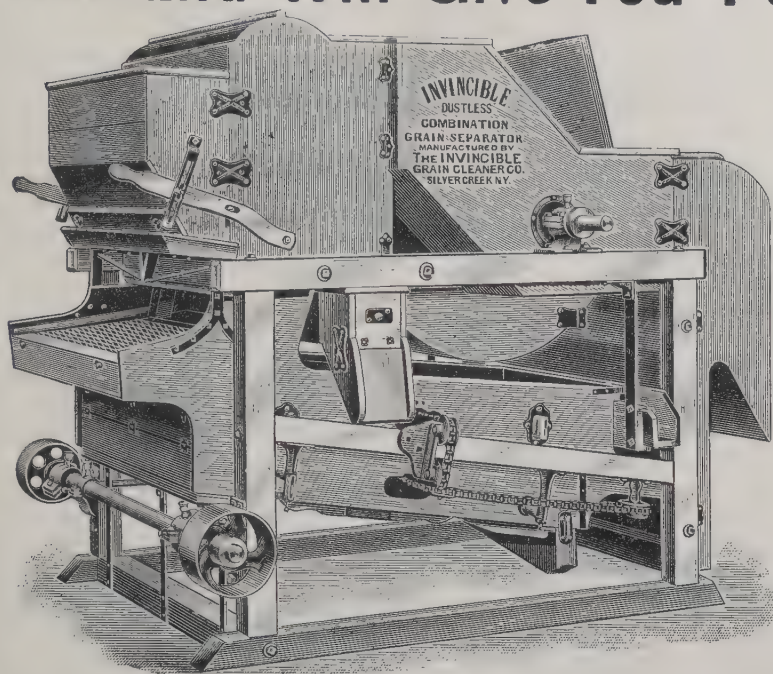
Catalog and our Expert's Services are yours free of charge.



Patented

B. S. CONSTANT MFG. CO., Bloomington, Ill.

Do Not Overlook It—It Is Designed For Your Use and Will Give You Perfect Satisfaction



If you need a Receiving Separator you would have to search diligently to get a machine that would compare to the INVINCIBLE.

It's just a question whether you prefer to take in the screenings with the wheat at wheat prices or whether you make sure that your good wheat money buys wheat only and not screenings.

The modern way is to clean the wheat from the wagons and pay for the good. That is a legitimate way of getting a proper yield from your dollar.

We send the machine on trial and guaranteed.

Fully equipped with self-oiling bearings and pitmans of the latest type.

Invincible Grain Cleaner Co., Silver Creek, N. Y.

F. H. MORLEY, Jr., 805 Webster Bldg. Chicago, Ill.
C. L. HOGLE, 622 Board of Trade, Indianapolis, Ind.
C. WILKINSON, 6027 Chesnut St., Philadelphia, Pa.
CHAS. H. STERLING, Jefferson House, Toledo, Ohio

REPRESENTED
BY

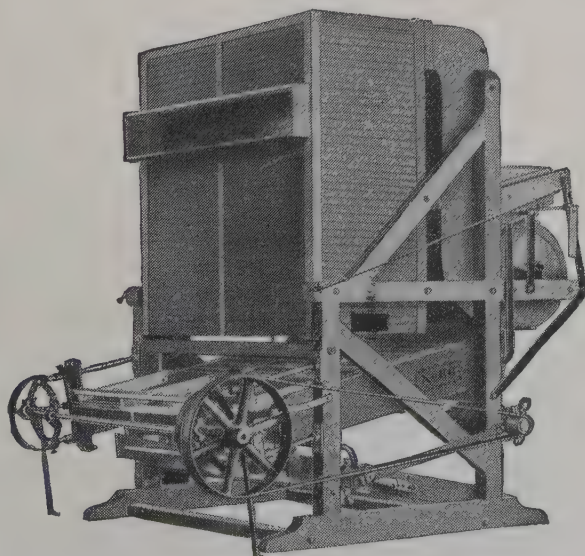
F. J. MURPHY, 234 Exchange Bldg., Kansas City, Mo.
F. E. KINGSBURY, Terminal Hotel, St. Louis, Mo.
J. J. CROFUT & CO., 612 McKay Bldg., Portland, Ore.

SPECIAL SALES AGENTS: BUCKLEY BROS., Louisville, Ky. STRONG-SCOTT MFG. CO., Minneapolis, Minn.

LET US CASH YOUR CHECK

for the returns from your screenings instead of giving it away. If we cash it for you, we apply it on the purchase of a

No. 66 New Process CLEANER — SEPARATOR — GRADER



The greatest profit maker for the country elevator — handles wheat, oats, flax, barley, rye and seeds with simple change of screens and does better work than most makes of special cleaners on each kind of grain.

In the Northwest States we can ship a cleaner to any reliable elevator company or individual **without initial payment** except for freight and the nominal cost of installing in elevator. All we then ask is 75% of returns received from the by-product — a couple of cars usually pays for the cleaner.

Could you ask for a better proposition or guarantee of satisfaction?

Let us send you our new catalogue.

Fosston Manufacturing Co.

140 Merriam Park, St. Paul, Minn.

"Wanted" and "For Sale"

The rate for advertisements in this department is 20 cents per type line each insertion

ELEVATORS FOR SALE.

FOR SALE—NORTHERN INDIANA, up-to-date elevator in good section. Address Rudolph V. Shakes, Plymouth, Ind.

WESTERN OHIO—Fine elevator in corn and oats belt for sale. Address Dandy, Box 3, Grain Dealers Journal, Chicago, Ill.

WESTERN OHIO elevator for sale. Capacity 200 cars per year; in excellent condition. For particulars write W. E., Box 12, Grain Dealers Journal, Chicago.

FOR SALE—12 M. capacity elevator and feed mill in Freeborn Co., Minn. A bargain. Address Exceptional, Box 9, Grain Dealers Journal, Chicago, Ill.

IOWA ELEVATOR—Best grain growing section of the state. Elevator in good repair, good competition and receipts 250,000 to 400,000 bu. Always a money maker. Address Gilchrist, Box 8, Grain Dealers Journal, Chicago, Ill.

MINNESOTA ELEVATOR for sale or trade for land. Modern 14 bin cribbed construction; has engines, dump and hopper scales, cleaners, eight bin coal houses, corn crib. For further information and price write E. J. Matteson, St. Peter, Minn.

COLORADO—Elevator for sale. The best location in the state; town, five thousand; division terminal; two trans-continental lines; 20,000 bu. capacity. A money-maker at a bargain. Have other business. Address Wallace, Box 3, Grain Dealers Journal, Chicago, Ill.

TWO KANSAS elevators for sale. One located at Neola; price \$3,800, the other located at Wilroads; price \$3,500. Both elevators are in first class condition, being built but one year. Capacity of each, 1,500 bu. For full information address W. T. Shute, Macksville, Kansas.

NORTHERN IOWA—Three elevators; good locations, doing good grain and coal business; good crop prospects. Will sell right, must quit business account of poor health. Come at once if you want to buy right. Might take part trade. Address Lock Box 195, Fonda, Iowa.

SOUTHWESTERN OHIO, 25M bus. cribbed ironclad elevator for sale. Own ground and stub switch; steam power; built four years; am not a resident where elevator is located and will sell very reasonable. For further information address Omar, Box 1, Grain Dealers Journal, Chicago, Ill.

NORTHERN INDIANA elevator for sale or will trade for land or good income property. 15M bu. capacity; will handle about 100 cars per year; in a new country and will soon handle double this amount. Can be bought on easy terms. A good place for live man. Address Knox, Box 12, Grain Dealers Journal, Chicago, Ill.

THREE MICHIGAN bean and grain elevators for sale. All fully equipped, modern and up-to-date, prices right, good reasons for selling. One located in large city and has a capacity of 10,000 bushels, and large warehouse in connection. One in a small town of about 5,000 people and has in connection a frost proof potato warehouse. The third located in small village, and has frost proof potato warehouse in connection, and also a going profitable flour, feed, coal and cement business in connection. Also a first class location for peach and apple business. Only elevator in town. Address Prescott, Box 1, Grain Dealers Journal, Chicago, Ill.

ELEVATORS FOR SALE.

GOOD KANSAS grain elevator for sale, cheap, at Sharon, Barber County. Address F. P. Hawthorne, McPherson, Kans.

OHIO elevator for sale. Best elevator and coal proposition in Northwest part of state. Address Ohio, Box 1, Grain Dealers Journal, Chicago, Illinois.

SO. DAKOTA—A 25,000 bushel cribbed elevator for sale, located in Wentworth. Moody Co., at a reasonable price. Good reasons for selling. Address Box 203, Canastota, S. Dak.

CENTRAL OHIO elevator, coal and feed business for sale. Gilt edge proposition. Address "Owen," Box 8, Grain Dealers Journal, Chicago, Ill.

FOR SALE—A good 20M bushel elevator in Clinton County, Ind.; doing a good business. Address Ambria, Box 4, Grain Dealers Journal, Chicago, Ill.

IOWA elevator for sale. 30,000 bu. capacity; business 250,000 bus. annually, 900 tons coal; good live town to live in. Address Blair, Box 1, Grain Dealers Journal, Chicago, Illinois.

FOR SALE—Grain elevator, coal and wood yard, flour and feed business. Electric lights and power. Everything in first class order. A good live business. Room for good sized lumber yard, if so desired. Two dwelling houses in the same block. Address Baker, Box 2, Grain Dealers Journal, Chicago, Ill.

CENTRAL ILLINOIS. — Elevator in Thriving County Seat. Sacrifice sale on account of death. New modern 16,000 bu. elevator and residence sold for almost half value. Also good coal and feed business. Yearly net earnings 15%, handled 250,000 bus. last year. A great bargain. Idlers and traders need not apply. Write or call on Menominee Company, 928, 30 N. La Salle st., Chicago, Ill.

FOR SALE—A 30M cribbed elevator with large feed mill and coal shed in connection. Plant located in nice town of 300, with good school; on main line of G. N. R. R. in Western N. Dak. Elevator is equipped with 16 h. p. gas engine, chains, dumps and automatic scales. Feed mill equipped with Wilford No. 1, three roller mill. All buildings and machinery in first class condition. Only one other elevator at station. Annual receipts of house, 75,000 to 110,000 bu. Also good feed and coal business. Price complete \$7,000.00, \$3,000 cash will handle deal or will sell controlling interest in plant, which carries mgr's position for \$1,350. If interested in getting into a good business with a small capital, write Bargain, Box 3, Grain Dealers Journal, Chicago, Illinois.

ELEVATORS FOR SALE.

FOR SALE—Elevator and coal business in town of 12,000 population; no competition; good reason for selling. Address P. O. Box 414, Oskaloosa, Iowa.

FOR SALE—A small line of elevators in N. W. Iowa and S. E. South Dakota. Will sell all or separately. Address "A, Box 8," Grain Dealers Journal, Chicago, Illinois.

CHOOSE YOUR ELEVATOR from the many offered. Insert an advertisement in the "Elevators Wanted" columns of the Grain Dealers Journal, and select one at a satisfactory price and station.

ELEVATORS WANTED.

WANTED—Elevator in Central Ohio. Give description, price and amount of business done. Address North Brothers, Pleasantville, Ohio.

HAVE A GOOD quarter section of land in No. Dak., wish to trade for good elevator. Have 120 acres in crop this year. All can be cropped. Address Lock Box 615, Gibson City, Ill.

WANTED TO BUY—Old elevators, factories, mills and other buildings of size for wrecking purposes. Write us what you have. La Crosse Wrecking & Lumber Co., La Crosse, Wis.

WE WANT YOUR ELEVATOR advertised in the "Elevators For Sale" columns of the Grain Dealers Journal, Chicago. We have sold elevators for others, let us serve you in a like manner. Send trial order today.

WANT TO LEASE GOOD ELEVATOR.

Must be well located and doing good business. Illinois or Indiana preferred. Give full particulars. Address Central W. Box 2, Grain Dealers Journal, Chicago, Illinois.

WANTED TO BUY or lease elevator in Northwestern Ohio or Northeastern Ind. Must be in good condition; doing good business. Coal, flour and feed in connection accepted. Give full particulars. Address August, Box 4, Grain Dealers Journal, Chicago, Ill.

ELEVATOR BROKERS.

ELEVATORS FOR SALE in Illinois and neighboring grain states. List your elevators either For Sale or Exchange with

AARON SMICK, Broker,

Decatur, Ill.

WOOL.

WOOL WANTED—If you have wool for sale write, wire or phone us. See our ad on another page. Kraus & Apfelbaum, Columbia City, Indiana.

TWO IOWA STATIONS Lumber, Grain, Coal and Feed

Elevators for sale in two of the best towns in Central Iowa, on C. & N. W. Ry., about 17 miles apart, and of 1,000 population each. One inhabited by Germans, the other by Norwegians. The two elevators with stock of lumber, fence and coal will amount to about \$50,000. Will take a good farm or good up-to-date elevator in Iowa, Illinois or Minnesota in part payment. Will give terms on balance. This is a real live proposition, and we want men answering to be really interested and mean business.

NO CROP FAILURES KNOWN END TO THE LUMBER BUSINESS

Good reasons for selling. For further particulars address, "MONEY-MAKER," Box 4, Grain Dealers Journal, Chicago.

ELEVATORS FOR SALE BY C. A. BURKS

DECATUR, ILL.

GOOD I. C. ELEVATOR FOR SALE.

No. 816. This is a good 40000 bu. Elevator with no ear corn storage, stone foundation, drop siding, shingle roof, cribbed bins, 2 dumps, low drive, 2 stands of Elevators, 1 Cleaner, Richardson Automatic scale, iron clad engine house, 20 HP. Gasoline engine, painted in 1912, no competition, good territory. Owner could live in large Town close by. Elevator will handle 150000 bu. per year. Price \$7000.00, half cash, balance to suit purchaser. Call or write.

IND. ELEVATOR FOR SALE CHEAP.

No. 627. Vandalia Elevator located at junction point in town of 400, with school, telephone, telegraph, church; land leased of R. R.; capacity shelled grain 7,000 bu., ear corn 1,000 bu.; drop siding, stone foundation, cribbed bins, Bowser feed mill, gravity loader, 2 dumps, Western sheller, 2 stands of elevators, Hopper scales, frame engine room; 16 H. P. gasoline engine. Office 10x12, small safe, stove, chairs and desk. Elevator handles 40,000 bu.; no competition. Price \$2,500.

C. H. & D. ELEVATOR FOR SALE OR TRADE.

No 559. 55,000 bu. Elevator in town of 1200, with 2 banks, telephone exchange, telegraph and 3 schools and churches. Located on C. H. & D. Land belongs to plant. Capacity of shelled grain, 25,000 bu., ear corn 30,000 bu. Paper roof, brick and concrete foundation, studded bins, Boss loader, 5 dumps, No. 2 Marseilles sheller, Western cleaner, 2 stand elevators, Bowler Automatic scales, 22 h. p. Fairbanks-Morse Gas engine, 150 ton coal bins. 2 room office. Vulcan safe. 3 elevators at Station. Price \$12,500. Million-bu. station. No better proposition in Illinois.

LARGE I. C. ELEVATOR FOR SALE.

No. 815. This is one of the best Elevators surrounded by one of the best grain territories in Central Ill. Capacity 50,000 bus. shelled grain, and 20,000 bu. ear corn in Elevator with 5000 bu. outside crib room; iron clad roof and sides, bins studded and cribbed, 3 stands of Elevators, Western Cleaner and Sheller, 20000 lb. Hopper Scale, steam and power, 25 H. P. Engine, 30 HP. Boiler, large office, safe and outfit complete, painted in 1913, 1 competitor, station will handle 500,000 bu. Located on land leased of the ICRR not far from Decatur, population of town 500, Methodist and Presbyterian churches, good schools, telegraph, telephone, etc. If you want something above the average here it is. Price \$19000.00. In first class repair. Half cash, balance to suit purchaser. Good crop. Call or write.

BLACK FARM FOR ELEVATOR OR LUMBER.

No. 581. This farm of 340 acres is well drained and level, a dandy, fine, black soil farm, just the kind of land that wears and grows the finest of corn, wheat, alfalfa, clover, oats and timothy. There are 2 sets of improvements in good repair; large hay barrack, double corn crib, etc. Every foot under cultivation and rents for two-fifths to one-half of the crop delivered; 3 grain stations within 3 miles of this farm. This is one of those "Famous" St. Charles County, Missouri farms out about 25 miles from St. Louis. Can reach it from Decatur in about 4 hours. This is a good farm, and one that will suit anyone that is looking for a good investment, and we would like to have you see this one. Mr. Burks saw the crops on this farm only last week, and all crops are looking excellent; couldn't be better. This farm has an incumbance of \$16,000 that runs for 5 years. The owner of this farm will exchange for a good Illinois elevator that shows value asked. Price of farm \$135 per acre. Look into this and let us show you as fine a proposition in a farm as you ever had shown you. Call or write us on this.

"Negotiations Confidential."

WABASH ELEVATORS FOR SALE.

No. 556. Two elevators in town of about 200; telephone exchange; telegraph; 1 school; land leased. 25,000 bushels capacity shelled grain; galvanized roof on one, shingles on other; brick and concrete foundation; 2 stands elevators; 1 bin studded, 1 cribbed; gravity loader; 2 dumps; Fairbanks new scale; implement shed; frame office. One competitor. Price \$6,000.

BIG 4 ELEVATOR FOR SALE OR TRADE.

No. 542. A 105,000 bu. Elevator on land leased of Big 4 railroad, brick foundation, 1x4 siding, prepared roof, capacity, ear corn 60,000 bu., oats 45,000 bu., studded bins, gravity loader, 1 dump Western sheller, Western cleaner, 1 elevator stand, Fairbanks-Morse automatic scales, motor 35 H. P. engine; no competitor. Handles about 200,000 bu. Price \$6,500.

WABASH ELEVATOR FOR SALE.

No. 535. A 19,000 bu. elevator, located on Wabash railroad in town of 1,500; 2 banks, telephone, telegraph, 2 schools, 4 churches; land leased of Wabash. Shelled grain capacity, 12,000 bu.; ear corn, 7,000 bu.; one outside crib, galvanized roof, concrete and brick foundation, studded bins, 3 dumps. Marseilles No. 2 sheller, drag belt, Barnard-Leas cleaner, 2 stands of elevators, Howe scale, Mortor 30-h. p. engine, gravity loader, 1 car coal bin. Office 16x24, desk, chairs, etc. Station handles 300,000 bu., one-half of which is handled by this elevator. Owner wishes to go west for health. Price, \$4,400.

ELEVATOR LOCATION AT JUNCTION POINT.

No. 538. I have a good location for an elevator at a junction point, at a good town in Central Illinois, on one of the main railroad systems of the State, having good connection with St. Louis, Chicago, Toledo, and other eastern and southeastern markets. This location is on land leased of a railroad company, which is desirous of having a good, new elevator put up on its right-of-way. Lumber, implements or other side lines can be handled in connection with the grain business at this station. This location and lease would cost you \$500. If you are willing to pay this price for a good location and lease, write or phone.

C. B. & Q. ELEVATOR FOR SALE OR TRADE.

No. 530. Elevator located on C. B. & Q. R. R. in town of 1700, with 2 banks, telephone, telegraph, 2 schools and 5 churches. Land belongs to plant; capacity shelled grain 40,000 bu.; ear corn 10,000 bu. Metal roof, stone foundation, studded bins, gravity loader, 2 dumps, Western sheller, Silver Creek and Cornwall cleaner, 3 stands of elevators, Fairbanks scales, I. H. C. 2 cyl. 25 H. P. gasoline engine; painted in 1911. Will need no repairs; belting and everything in first-class condition. Office 9x12. Station handles 350,000 bu., 100,000 bu. of which is handled by this elevator. 3 elevators at this station; 2 coal and lumber yards. Last year's profits \$2,000. Will trade for flour mill. Price \$6,000.

WABASH ELEVATOR FOR SALE OR TRADE.

No. 552. One of the best elevators in a small town on a Chicago branch of the Wabash, located on land leased of the railroad company, with capacity for 30,000 bushels shelled grain and 4,000 bushels ear corn in the elevator. Covered with galvanized iron; built on a solid stone foundation; painted red with cribbed bins; gravity load; 12-in. buckets; 2 dumps; Marseilles sheller with 2 stands for elevator; 25-h. p. engine; coal bin for 200 tons; office 24x24; Diebold safe; 2-roll top desks; one good competitor at a station that handles 500,000 bushels per year or better, and this elevator handles fully half. Territory surrounding 16 miles by 8 by 10 by 6, the nearest competitor. Price, \$15,000. Terms can be arranged on half. This could be handled with lumber yard at station.

"Negotiations Confidential."

C., B. & Q. ELEVATOR FOR SALE.

No. 558. C., B. & Q. elevator, 2 stand, in town of about 1,200, having 2 banks, 2 telephone exchanges, 1 telegraph office, 1 large school; land leased. Studded bins, Bowser feed mill, one dump, Marseilles sheller, Union Iron Works cleaner, Fairbanks 7x14 platform scales and new Richardson Automatic scales, 5-h. p. Fairbanks Morse engine, 8x10 office, inside elevator, one mill and one elevator; 2 lumber yards at station. Price, \$3,100.

NEW I. C. ELEVATOR FOR SALE.

No. 625. I. C. elevator in small town, with telephone; land belongs to plant; capacity shelled grain, 35,000 bu., drop siding, shingle roof, stone foundation; built in 1908 and painted last year; studded bins, gravity loader, 1 dump, stand of elevators, brick engine room, Fairbanks-Morse gasoline engine; capacity coal bins, 60 tons. Office 12x14, painted last year; desks and chairs. Station handles 150,000 bu., no competition; surrounded by good territory. Price, \$6,000.

I. C. ELEVATOR FOR SALE.

No. 563. A 37,000 bu. Elevator on land leased of I. C. railroad in town of 350, with bank, telephone exchange, telegraph, school and churches. 30,000 bu. capacity shelled grain, 7,000 bu. ear corn, drop siding, shingle roof, rock foundation, one outside crib, studded bins, air blast loader, 4 dumps, Western No. 2 sheller, roller screen, 2 stand of elevators, Fairbanks-Morse 25 h. p. gas engine. 2 room frame office. One good competitor. Price \$5,600.

ELEVATOR FOR CENTRAL ILLINOIS FARM.

No. 598. C. B. & Q. Elevator, 2 stand, in town of 250; telephone exchange, telegraph, 2 churches, 1 bank, 1 school. Land belongs to plant. 40,000 bu. shelled grain capacity, 2,000 ear corn capacity; steel roof, concrete foundation, cribbed bins, Bowser feed mill, gravity load, 2 dumps, 6x12 buckets, Western gyrating cleaner, automatic scales, drop siding, 20 h. p. gasoline engine, 200 ton coal bin. Office 12x22; Victor safe. Handles 500,000 to 600,000 bu. per year. This elevator handles fully half. Price \$12,000. Will trade for farm in central or northern part of state.

NEW I. C. ELEVATOR AND RES. FOR SALE.

No. 814. This elevator is located on the I. C. R. R. and will hold from 35,000 to 40,000 bushels shelled grain and has crib room for 2,000 bu. ear corn and outside crib room for 3,000 bu., and is located in central Illinois, close to a city of 3,500. Elevator is new and up-to-date, with concrete foundations, iron-clad sides and roof, 8 bins, 4 dumps, 2 stands of elevators, easy drive, Western cleaner and sheller, 30,000-lb. hopper scale, gasoline power, iron-clad engine room, 25-h. p., coal bin for 2 cars, nice office. Station will handle from 150,000 to 200,000 bu. of grain annually, and only elevator at this station. Price, \$11,000, half cash, balance to suit purchaser. There is also a nice 6-room house, painted white, goes with this elevator—all on leased ground. A good station for one man. If interested, call at my office or write.

INDIANA ELEVATOR FOR FARM.

No. 688. Located in the Eastern part of Indiana in a good small town, telephone, telegraph facilities, good school and church, on N. Y. C. & St. L. R. R. Plant on own ground. Has capacity for 15,000 bu. shelled grain, cribbed bins, painted, 1 stand elevators. Buckets 12x6, 2 dumps, No. 2 Western Sheller, chain feed, Western Cleaner, 2 pair scales, 4 tons and 1 ton. Frame engine room, Allis Engine and Boiler, coal bins holding 50 tons coal. Office 12x12, plant handles 80 to 100,000 bu. annually nicely located between and close to terminal markets. This is a new place and will grow to double its present capacity if properly handled and is the making of a good grain proposition. Price \$5000; will consider a good farm or income property. No competition here.

"Negotiations Confidential."

HELP WANTED.

WANTED—Agents having elevator experience, to call on the elevator trade. The Challenge Mfg. Co., Morris, Ill.

SECOND MAN wanted for elevator at Cleghorn, Iowa. Must be competent and not afraid of work. German preferred. Address W., Box 3, Grain Dealers Journal, Chicago, Illinois.

WANTED—A man familiar with the coal and grain trade in Iowa, Minn., and Illinois. Good salary to the right party. State references when writing. Address Fisher, Box 12, Grain Dealers Journal, Chicago, Illinois.

SITUATIONS WANTED.

POSITION WANTED as grain buyer for some line firm. Experienced in grain business. Address Box 35, Adrian, Minn.

POSITION WANTED as grain buyer by year. Have had 22 years' experience, can give references. Address Box 43, Bethany, Minn., Winona Co.

WANTED—POSITION as traveling solicitor for good commission house. Fifteen years experience in grain and coal. Bank references. Address Home, Box 4, Grain Dealers Journal, Chicago, Ill.

AS AN EXPERIENCED builder and grain buyer, I wish to place my labor and experience against capital, in the construction and operation of an up-to-date elevator. W. F. Strom, Lock Box 195, Custer City, Oklahoma.

COMPETENT and experienced millwright and elevator foreman desires position operating elevator or keeping line of elevators in condition. Position must pay well. Address Elevator Builder, Box 4, Grain Dealers Journal, Chicago, Ill.

POSITION WANTED as manager of co-operative or line elevator. Ten years experience in the grain business. Also some experience in lumber yard. Best of references furnished. Address Baker, Box 4, Grain Dealers Journal, Chicago, Ill.

WANTED—POSITION as grain solicitor, Northern Iowa territory preferred. Have had several years experience in the grain business. Best of references. Address N. C. S., Box 2, Grain Dealers Journal, Chicago, Ill.

WANTED—POSITION by Sept. 1st, as manager in an elevator. Have had eight years experience in grain, coal and seed business. Can furnish best of references. Address Brun, Box 3, Grain Dealers Journal, Chicago, Illinois.

POSITION WANTED as grain buyer or elevator manager. Long experience in the handling of grain. Best of references. North Dakota elevator preferred. Address Windsor, Box 10, Grain Dealers Journal, Chicago, Illinois.

POSITION WANTED as manager of co-operative or line elevator. Have had 25 years' experience in flour mill and grain elevator. Am capable of taking full charge. Can furnish best of references. Address Box 121, Elwood, Indiana.

WANTED AT ONCE position as traveling solicitor for good commission house or manager or agent for good grain elevator. Am alive and have had 4 years experience in handling grain, feed and coal; 28 years of age. Best of references. Address Capable, Box 3, Grain Dealers Journal, Chicago, Ill.

POSITION as manager of Farmers' or line elevator wanted by a live, up-to-date grain man; 5 years experience buying and selling; coal experience; age 25; best of references. Used to handling 250,000 to one-half million bushels of grain in a season. Address Adam, Box 3, Grain Dealers Journal, Chicago, Ill.

SITUATIONS WANTED.

POSITION WANTED as manager of elevator. Have had some experience. Kans. or Okla. preferred. Box 356, Ellsworth, Kans.

CAPABLE GRAIN MAN wants position. Ten years experience buying, selling and soliciting. Address Energetic, Box 1, Grain Dealers Journal, Chicago, Ill.

POSITION WANTED as grain buyer. Four years experience in one elevator. Life time experience in grain. Satisfactory references. North Dakota preferred. Walter Hunsaker, Dacoma, Okla.

WANTED—POSITION as manager of elevator. Have had 20 years experience; 50 years old; speak German and English. Good references. Address Star, Box 3, Grain Dealers Journal, Chicago, Ill.

EXPERIENCED GRAIN ELEVATOR managers and operators have 6,000 possible openings to apply for by making their want known through the "Situations Wanted" columns of the Grain Dealers Journal.

EXPERIENCED grain man wants position as manager of Farmer's Elevator; have 20 years experience; can furnish best of references. Address Kansas, Box 3, Grain Dealers Journal, Chicago, Illinois.

POSITION WANTED as manager and buyer of grain at country elevator, 5 years experience in the grain, seed and coal business. Competent bookkeeper; married; age 28; reference furnished. Address Box No. 6, Gate, Okla.

POSITION WANTED as manager of elevator. Have had several years' experience in grain, coal and feed business and can give the best of references; 35 years old and married. Address Rand, Box 2, Grain Dealers Journal, Chicago, Ill.

WANTED—POSITION as manager in elevator. Have had 16 years' experience in the grain and seed business. Wisconsin preferred. Can furnish best of references. Address Enton, Box 2, Grain Dealers Journal, Chicago, Ill.

POSITION WANTED as manager of Farmer's or line elevator. Have had 14 years experience buying and selling Illinois grain and coal. Married and can give the best of references. Illinois territory preferred. Also speak German. Address Taylor, Box 3, Grain Dealers Journal, Chicago, Ill.

PROPOSALS.

PROPOSALS FOR FORAGE FOR PHILIPPINES.—Dept. Quartermaster's Office, 556 Federal Building, Chicago, Ill., Aug. 25, 1913.—Sealed proposals will be received here until 1 o'clock, P. M., Central Time, Sept. 15, 1913, for furnishing and delivering at Chicago, Ill., or other prominent railroad points: 7,000 tons of oats and 8,000 tons of hay, for shipment to Philippine Islands. Information furnished upon application.—Amos W. Kimball, Dept. Q. M.

PROPOSALS FOR FLOUR, OATS, DRIED FRUIT, ETC., Department of the Interior, Office of Indian Affairs, Washington, D. C., August 12, 1913. Sealed proposals, plainly marked on the outside of the envelope: "Proposal for flour, oats, dried fruit," etc., as the case may be, and addressed to the "Commissioner of Indian Affairs, Sixteenth and Canal Streets, Chicago, Ill.," will be received until 2 o'clock p. m., of Tuesday, September 16, 1913, and then opened, for furnishing the Indian Service with canned goods, cornmeal, cracked wheat, dried fruit, feed, flour, hominy, oats, rolled oats, etc., during the fiscal year ending June 30, 1914. Bids must be made out on Government blanks. Schedules giving all necessary information for bidders will be furnished upon application to the Indian Office, Washington, D. C., the U. S. Indian Warehouses at New York City, Chicago, Ill., St. Louis, Mo., Omaha, Neb., and San Francisco, Cal. The Department reserves the right to reject any and all bids, or any part of any bid. CATO SELLS, Commissioner.

BUSINESS OPPORTUNITIES.

FOR SALE—Large tile plant, well located and doing fine business. Will take in exchange an elevator or good farm land. Address J. F. Longworth, Van Wert, Ohio.

HAVING DISPOSED of my interest here am open for a location in the grain business. Might consider a good 100 to 150 bbl. mill. Don't write unless you have something good. Lock Box 15, Everest, Kans.

FOR SALE—Controlling stock in a county Farmer's elevator. Good point; good crops; good business. Job goes with stock. Also fine residence. Northwest. Address S., Box 4, Grain Dealers Journal, Chicago.

GRAIN DEALER wanted. Splendid opening at Proctor, Logan County, Colorado, for a live grain dealer. Should have \$4,000 to \$5,000. Can furnish good reliable partner to combine general store business if desired. Address Proctor State Bank Proctor, Colo., or J. D. Blue, Jr., Cedar Rapids, Iowa.

FOR SALE—A good and growing seed and poultry supply business, at inventory; no dead stock. Or would sell half interest. No better opportunity on the market. This business is located on the Pacific Coast where we do not have hot weather nor do we have to depend on the rainfall for crops. Owner has too much outside business and for this reason wishes to sell. For full particulars address F. J. Poor, 116-118 E. 7th st., Los Angeles, Calif.

192½ ACRE FARM FOR EXCHANGE OR SALE.

192½ acre upland farm prominently located on a good macadamized pike, a mile and a half from the city limits of Hamilton, Ohio.

Soil is a clay loam with a clay sub-soil of a limestone nature. About 80% of this land is subject to cultivation; rolling enough to afford good drainage; balance most too rough to farm, but is in blue grass pasture and timber. There is about 2 acres of orchard.

Two sets of improvements. One old fashioned 10 room brick house and one large bank barn. One 8-room frame house and bank barn. Several small out-buildings, all of which are in good repair. Several good wells at the buildings and several springs on the farm. Fairly good fencing.

This farm will make one of the best dairy and stock farms in the country, owing to the fine quality of blue grass pasture it produces, and abundance of the very finest water, and its closeness to one of the thriftiest manufacturing cities of its size in the United States.

In addition to its adaptability as a stock and dairy farm its location is such that over half of it will afford cutting up in small acreage and find rapid sale for same at prices from \$200 to \$300 an acre. The little work and expense in cutting this farm up in small acreage is very minor.

Price for the farm in its present condition, \$150 per acre. Will consider a good paying elevator in exchange. Give detail description and best prices of what you have to offer in first letter.

Address, Box 118, Hamilton, Ohio.

SECOND-HAND BAGS AND BURLAP.

WANTED:—BURLAP BAGS, all sizes of heavy bags for grain. Send samples and prices to The Raymond P. Lipe Co., Toledo, Ohio.

5,000 **SECOND-HAND COTTON** grain bags for sale in any quantity. For prices write

FOELL & COMPANY,
123 Market street, St. Louis, Mo.

BURLAP BAGS OF EVERY KIND FOR SALE; new or second-hand, plain or printed with your brand; Seamless Cotton Grain Bags; Sample Bags, Burlap, Cotton Sheet-iron, or Paper for Car Lining, etc. Wanted: second-hand bags, best prices paid. WM. ROSS & CO., 409 N. Peoria St., Chicago

MILLS FOR SALE.

EAST CENTRAL, IND.—50-bbl. Mill, 10,000 bus. elevator and 40 car coal business. Fine grain country. Prospects never better. Price \$7,500, terms. W. F. Farmer, Cloverdale, Ind.

FOR SALE OR LEASE—200 bbl. flour mill and 30,000 bu. capacity elevator, located in Western Okla. In good repair and can give possession at once. W. G. Phillips, Box 243, Plainview, Tex.

FOR SALE—Seventy-five barrel roller flour mill, Nordyke & Marmon build, now in operation; located in good wheat section of Virginia, with an available Water Power of 350 Horse. Address Spruce, Box 11, Grain Dealers Journal, Chicago, Ill.

BUILDING MATERIAL.

FOR SALE—All oak and white pine timbers, cribbing and flooring from Rock Island elevator, 13th st. and Chicago River, Chicago, now being wrecked. Bargains in carload lots. Ruel Wrecking Co., 7337 Stony Island ave., Chicago.

SCALES FOR SALE.

SCALES of all kinds repaired, rebuilt, tested and sealed. Elevator and mill scales our specialty. All work guaranteed. Address Young Bros., 1 Bridge St., Toledo, O.

FOR SALE—A Fairbanks, 100 bu. cap. hopper scale; good as new, with extra good hopper. Price f. o. b. Palermo, with hopper, \$35.00, or without hopper, \$25.00. Palermo Grain Co., Palermo, N. Dak.

SCALE BARGAINS.

Rebuilt and in good condition, 5 ton Fairbanks wagon, \$55.00, 6 ton \$65.00, 10 ton \$95.00, 30 ton \$140.00, 6 ton Monarch \$45.00, 6 ton "The Std" \$60.00, 10 ton \$95.00, 3500 lb. Fairbanks dormant \$35.00, 5000 lb. \$60.00, 2500 lb. "The Std" \$35.00.

The Standard Scale & Supply Co.,
1345 Wabash ave., Chicago, Ill.

STEAM ENGINES, BOILERS.

FOR SALE—A 30 horse power steel boiler nearly new; insurable for 100 lbs. steam. It must sell. G. B. & C. M. Griffin, Charleston, Ill.

FOR SALE—75 horsepower, 4 valve Atlas engine; 125 horse boiler, also Atlas make, smoke stack and brick building included. All are in first class condition. Address W. H. Lewis, Alma, Nebraska.

DYNAMOS—MOTORS.

FOR SALE—One 10 h.p. motor, single phase, 140 cycle, 104 volts. Must sell on account of city changing circuit. In good running condition. Address C. J. Imholt, Hampton, Iowa.

HAY PRESSES FOR SALE.

FOR SALE—Large bale steel hay press (Hercules), cheap; used part of one season. Address Switzer & White, Gallon, Ohio.

GASOLINE ENGINES.

FOR SALE—One 10 h.p. Lennox gasoline engine. In good repair. C. J. Imholt, Hampton, Iowa.

FOR SALE—Olds 18 h.p. Type G, gasoline engine. Good condition. A bargain. F. B. Bonebrake, Osage City, Kans.

LOW PRICE FOR QUICK SALE.

One 25 h. p. Foos Gasoline Engine, almost new. Address Salem, Box 12, Grain Dealers Journal, Chicago, Ill.

ANY KIND, ANY SIZE, ANY PRICE gasoline engine which is not in use and which you wish to sell, will find many ready buyers if advertised in the "Gasoline Engines" column of the Grain Dealers Journal, Chicago. Try it.

GASOLINE ENGINES.

FOR SALE—1 15 h.p. gasoline engine. \$100.00. Guaranteed. Address Engine, Box 4, Grain Dealers Journal, Chicago, Ill.

FOR SALE—Deere & Webber Gasoline Engine; 14 h.p. in first class running order. Price \$225.00 f.o.b. cars at Moorehead, Minnesota. N. J. Olsen Co.

POWER USERS—Gasoline engine bargains from 1 to 100 h.p. Get our big list and state your power requirements before you buy. Badger Motor Co., Milwaukee, Wis.

GASOLINE ENGINES FOR SALE.

44 H. P. Fairbanks-Morse.
25 H. P. Columbus.
25 H. P. Fairbanks-Morse.
22 H. P. Fairbanks-Morse.
15 H. P. Fairbanks-Morse.
12 H. P. Fairbanks-Morse.
6 H. P. Fairbanks-Morse.
4 H. P. Fairbanks-Morse.
Also fifty engines of varied sizes and all makes. Address A. H. McDonald, 547 W. Monroe St., Chicago, Ill.

REAL BARGAINS.

15 h. p. Foos
20 h. p. Fremont
8 h. p. Havana, new.
6 h. p. Fairbanks-Morse
4 h. p. Havana, new.
1000 bu. Automatic Scale, new
1 Corliss Engine and Boiler.
The above are guaranteed to be in good condition.
Three car loads good lumber.
H. GROSS LUMBER & WRECKING CO.
Omaha, Nebr.

MACHINES WANTED.

WANTED—Second-hand Cranson Buckwheat Scourer, polisher and separator, capacity 20 bushels per hour. Must be cheap and in good condition and in good running order. Address Geo. J. Mulzer, Galena, O.

MACHINES FOR SALE.

FOR SALE—Roberts Alfalfa machinery, complete, for sale cheap. Twenty-five ton per day capacity; used but very little. E. H. Link, Sec'y, Hillrose Milling & Merc. Co., Hillrose, Colo.

FOR SALE—Two second-hand No. 6 Monitor Seed Cleaners; one second hand platform scale (Fairbanks). For particulars write S. W. Flower & Co., Toledo, Ohio.

MACHINERY BARGAINS.

1 4 h.p. Gasoline Engine.....	\$75.00
1 Fairbanks hopper scale	35.00
2 Boot Tanks, each	20.00
1 No. 4 Buffalo Fan.....	15.00
1 No. 8 " "	25.00
1 Steam Condenser	30.00
1 Grain Spout complete	4.00
1 large bell	20.00
10 Belt Tighteners, each	5.00
600 Salem-cups, 6x16, each12
50 " " 6x18 " "12
600 Empire Buckets, 5x16.....	.06
150 " " 6x18.....	.06

All of the above are in good condition and snaps at the prices offered.

La Crosse Wrecking & Lumber Co.,
La Crosse, Wisconsin.

SACRIFICE SALE NOW ON.

All Makes and Sizes of Attrition Mills.
16" to 24" Robinson's\$65 to \$120 ea
16" " 26" Unique's 60 " 130 "
16" " 36" Monarch's 60 " 200 "
16" " 36" Foos's 60 " 200 "
16" " 26" American's 55 " 200 "
16" " 24" Halsted's 55 " 135 "

Many types of single head mill also. We need the room for other purposes.

All the above mills completely remodeled and reconstructed. Guaranteed to be in as near a new condition as second-hand machines can be made. Also a full line of Roller Mills, Separators, Reels, Roller Feed Mills, Shellers, Buhr Mills, Corn Crushers, Crackers, etc. Write us for catalogs today. Give us a chance on all your requirements, whether new or second-hand.

George J. Noth,
No. 9 South Clinton Street, Chicago, Ill.

MACHINES FOR SALE.

FOR SALE—Four roll Stevens Feed Mill 9"x15". Very cheap. Kiest Milling Co., Knox, Indiana.

FOR SALE—No. 3 B. S. Constant Fan Discharge corn sheller; capacity 400 to 600 bushels per hour; good as new. Address A. H. Richner, Crawfordsville, Ind.

FOR SALE—1 Boss loader with 12 ft. shaft and pulley, \$34.00; 1 Fairbanks 7-500 lb. Hopper scale, \$50.00. Address Clinton Grain Co., Frankfort, Ind.

FLOUR MILL, FEED MILL AND ELEVATOR MACHINERY AND SUPPLIES.

The largest Stock of Overhauled and reconstructed Machinery in the World.

Roller Feed Mills—9x24 Acme, 9x30 Allis, 9x24 Nordyke & Marmon, 9x30 Wolf, all three pair high; and 9x18 Allis, 9x18 Hutchison, two pair high; one No. 0, No. 1 and No. 2 Willford, one No. 2 Nordyke and Marmon three roll high, and many others listed in our Bargain Book.

Write for one—Mailed on request.
Corn and Cob Crushers—No. 1 Richmond, No. 14 Economy, No. 5 and No. 6 Excel, Foos Scientific Mills, No. 2 "Triumph," one "Horton," one No. 2 Acme, 2 No. 7 Sullivan, etc.

Attrition Feed Grinding Mills—16, 20, 24, and 30 inch "Monarch"; 18 and 24 inch "Modern Special"; 30 inch "American"; 16, 19 and 24 inch Foos; 24 inch "Unique."

Single Roller Mills—9x18 and 9x24 "Noye"; 9x18 "Odell"; 9x12 "Case"; 10x24 and 12x24 "Downtown"; 12x30 Allis.

Double Roller Mills—All Sizes and Makes.

Separators, Oat Clippers, Scourers, Dust Collectors, and Everything for Flour Mills, Feed Mills and Elevators.

Elevator Belts with Buckets Attached, at Extremely Low Prices—in either Cotton, Rubber or Canvas—Stitched Belt with "Salem" Steel Grain or Steel Corn Buckets Attached.

Address Dept. Q for "Gump's Bargain" Book, giving complete list of all Machinery, Belting, Pulleys, Shaftings, Elevator Belting, Buckets, etc., with Net Prices. Mailed Free on Request.

Est. 1872. Inc. 1901.
B. F. GUMP CO.,
431-437 So. Clinton St.
Chicago, Illinois.

SHIPPERS' CERTIFICATE of WEIGHT

Designed for the use of grain shippers who wish to make a written statement of the amount and grade of grain loaded into a car. Especially adapted for use in connection with claims for Loss of Weight in Transit.

Each ticket gives the following information: Kind of scale used; Station; Car Number and Initials; Shipper's Name; —lbs. equal to —bus. of No.—; Date scales were tested and by whom; car thoroughly examined and found to be in good condition and properly sealed when delivered to the ————R. R. Co.; Seal Record, name and number, sides and ends; marked capacity of car; date; and name of the weigher. On the reverse side of both originals and duplicates is a form for recording the weight of each draught.

Printed and numbered in duplicate. Originals on Goldenrod Bond paper and duplicates on tough pink manila in two colors of ink. Well bound with heavy hinged pressboard covers so they will open flat, containing 50 originals, 50 duplicates and four sheets of carbon paper.

Order Form No. 89 SWC. Price \$1.00.

Grain Dealers Journal, Chicago, Ill.

SEEDS FOR SALE—WANTED

GRAIN WANTED.

WANTED Corn, hay, oats, mill feed and the accounts of good responsible shippers in territory not already taken. M. A. Williamson, Fairmount, W. Va.

HAY WANTED.

HAY & STRAW WANTED—Correspond with us. W. J. Armstrong, Milwaukee, Wis.

GOOD HAY WANTED—Those in the market for good hay and straw can quickly satisfy their want thru an advertisement in the "Hay Wanted" columns of the Grain Dealers Journal, Chicago.

FLOUR FOR SALE.

MIXED CARS of flour and mill feeds in 100-pound sacks are our specialties. Would like to send you a trial to convince you of the superiority of our products. Ansted & Burk Co., Springfield, O.

GRAIN FOR SALE.

YOU CAN find a ready market for grains of all kinds, thru the insertion of an advertisement in these columns. It will be read by over 6,100 progressive grain dealers.

We Buy and Sell

Wheat Screenings, Cane seed, Salvage Wheat, Kaffir Corn. Write or wire for prices.
HENRY LICHTIG GRAIN CO., Kansas City, Mo.

Quote us with Samples

CLOVER, TIMOTHY and ALSYKE

The Philadelphia Seed Co., Inc.
PHILADELPHIA, PA.

SEEDS Clover, Alsike, Timothy
Consignments and Futures
SOUTHWORTH & CO.
TOLEDO, OHIO

THE ILLINOIS SEED CO., Chicago, Ill.

WE BUY AND SELL

TIMOTHY, RED, WHITE, ALSYKE AND ALFALFA CLOVERS, RED TOP, MILLETS BLUE GRASS, SEED GRAIN.

Ask for Prices. Mail Samples for Bids.

HAY WANTED
CARLISLE COMMISSION CO.
HAY SPECIALISTS

SHIP TO US BUY OF US
Established 1889
746 Stk. Exchange KANSAS CITY, MO.

Have 10,000 Bu. **CHICKEN FEED WHEAT** on hand
Wire or Write for Samples and Prices
HUHN ELEVATOR COMPANY
Chamber of Commerce, MINNEAPOLIS, MINN.

WM. G. SCARLETT & CO.

Grass and Field Seeds
Poultry and Pigeon Feeds
Buyers and Sellers Will
Please Correspond With Us.

729-735 E. Pratt St. 205-213 E. Falls Av
BALTIMORE, MD.

ALBERT MILLER & COMPANY

HAY Commission Merchants

Ask for our weekly letter
"THE HAY MARKET"

192 No. Clark St., CHICAGO, ILL.

KANSAS GROWN

Non-Irrigated New Crop

ALFALFA SEED

OVER 99 PER CENT PURE

RUDY-PATRICK SEED CO.

1311 W. Eighth Street Kansas City, Mo.

Clark's Double Indexed Car Register

Is a record book designed to afford ready reference to the entry or record of any car number. Facing pages 11x14 1/2 inches of heavy ledger paper are each ruled into five columns, those on the left-hand page being numbered 0, 1, 2, 3 and 4; while columns on the right-hand page are numbered 5, 6, 7, 8 and 9. Each column is ruled into three distinct divisions with the following sub-headings: "Initial," "Car No." and "Record."

The marginal index figure represents the right hand or unit figure of the number entered; and the column heading the second or tens figure. So that the required number can always be instantly found if properly entered.

ORDER FORM 40 contains 36 pages, bound in heavy canvas covers, with spaces for registering 9,000 cars. Price, \$1.50.

ORDER FORM 42 contains 68 pages, bound in art canvas covers with spaces for registering 17,000 cars. Price, \$2.50.

GRAIN DEALERS JOURNAL, La Salle St., Chicago, Ill.

Grain Receiving REGISTER

This book is designed to facilitate the work of the country grain man in keeping a record of weights of grain received. At the top of the 11 columns are printed Date, Name, Kind of Grain, Gross, Tare, Net, Bushels, Pounds, Price, Amount and Remarks.

Each book has 100 pages, 8 1/2 x 14 inches, and each page 40 lines, making each book contain spaces for records of 4,000 loads. The book is well printed and ruled on linen ledger paper, and substantially bound in extra heavy canvas covers. Order Form 12AA

Price, \$1.50

Grain Dealers Journal
La Salle St., CHICAGO, ILL.

SEEDS FOR SALE—WANTED

SEEDS FOR SALE.

ALFALFA.

American and Choice Imported. Quick shipment. Write for prices. G. S. Mann, Postal Tele. Bldg., Chicago, Ill.

FOR SALE—New Timothy seed in five to twenty bag lots. J. W. Richards, Ferris, Ill.

FOR SALE—Best grades of Clover, Timothy and Alfalfa. Reynolds Seed and Commission Co., 15-21 North Third st., E. St. Louis, Ill.

SEED BUYERS AND SELLERS can quickly sell and quantity, or buy any amount or quality by making their want known through an insertion of an advertisement in the "Seeds For Sale" columns of the Grain Dealers Journal, Chicago.

SEEDS FOR SALE.

We can offer to advantage Sand or Hairy Vetch Dwarf Essex Rape Canadian Field Peas Write for Prices Wm. G. Scarlett & Co., Baltimore.

SEEDS FOR SALE.

SEED WHEAT FOR SALE.

Grown in the famous Genesee Country. Cleaned and graded carefully. Varieties—Red Wave, St. Louis Grand Prize, Poole, and improved Number Six. Prices on application. M. C. Rumsey, Batavia, N. Y.

SEEDS WANTED.

WANTED—Timothy, Clover and Red Top. Mail samples all qualities. National Seed Co., Louisville, Ky.

WE ARE in the market for New Crop Red and Mammoth Clover, Timothy, Orchard Grass, Canada Field Peas, Red Top and other Field Seeds. Submit samples with quotations.

Peninsular Prod. Ex. of Maryland, Pocomoke City, Md.

SEEDS WANTED.

Send us your best samples and prices on new crop Timothy, Bluegrass, Redtop, Alfalfa, Alsike and Red Clover.

Wm. G. Scarlett & Co., Baltimore, Md.

DIRECTORY OF THE GRASS SEED TRADE

ARCHBOLD, OHIO.

Hirsch, Henry, all kinds grass and field seeds.

BALTIMORE, MD.

Buffington & Co., John J., whse. seed merchants.

BAMFORD, PA.

Hoffman, A. H., carlots or less seed wheat.

CHICAGO, ILL.

Dickinson Co., The Albert, seeds.
Illinois Seed Co., The, grass and field seeds.

EVANSVILLE, IND.

Small & Co., W. H., seeds, grain and hay.

INDIANAPOLIS, IND.

Indiana Seed Co., The, Seed Dealers.

LOUISVILLE, KY.

Louisville Seed Co., grass seed dealer.
Ross Seed Co., field seeds, exporters.

MILWAUKEE, WIS.

Courteen Seed Co., field seeds.
Rosenberg & Lieberman, alfalfa, clover, etc.
Teweles & Co., T., grass & field seeds.

MINNEAPOLIS, MINN.

Minneapolis Seed Co., field seeds.

MITCHELL, S. D.

Dakota Improved Seed Co., millet, seed-corn.

NEW YORK, N. Y.

Liefmann's Hamburg, rep. I. L. Radwaner, field sd.
Loewith, Larson & Co., clover, grass, field seeds.

TOLEDO, OHIO.

The Toledo Field Seed Co., clover, timothy.

TORONTO, ONT.

Steele, Briggs Seeds Co., Ltd., field seeds.

SEEDS

Grain, Clover and Grass Seeds,
CHAS. E. PRUNTY,
7, 9 and 11 South Main St. SAINT LOUIS

NEW CROP TIMOTHY SEED

Car lots or less.

The Oxley Seed Company

GIBSON CITY, ILL.

American Grown Farm Seeds

The Toledo Field Seed Co.

Clover and Timothy Seed

Consignments solicited. Send us your samples.

Toledo, Ohio

Representatives of the largest seed houses of Europe.

EUROPEAN SEED

Write for Samples and Prices

LOEWITH, LARSEN & CO.

150 NASSAU ST., NEW YORK, N. Y.

We now offer for import shipment new crop Red Clover, White Clover, Crimson Clover, Dwarf Essex Rape and Orchard Grass.

CLOVER, GRASS AND FIELD SEEDS

Largest ALFALFA SEED Dealers



Large Dealers in Red and Alsike Clovers, Timothy, Millets, Rape, Grasses, Buckwheat, Seed Corn, etc.

Always paying top market prices for good seeds. Write for sample envelopes.

Rosenberg & Lieberman

Founded 1860

MILWAUKEE, WIS.

BUYERS AND SELLERS

of grain elevators. You can make your wants known quickly by advertising in the "Elevators for Sale and Wanted" columns.

BUY OUR CELEBRATED Badger Brand



Selected Seeds

L. TEWELES & CO.

Established 1865

MILWAUKEE, WISCONSIN

Grass and Field Seeds

OUR SPECIALTY: Red, White and Alsike Clover, Timothy and Alfalfa Seed. Also Wisconsin Dried Peas.

SEND US YOUR SAMPLES

Can You Offer

Cane - Millet - Clover - Pop Corn

Send Samples

J. G. Peppard Seed Co.

Kansas City, Mo.

If Your Business

isn't worth advertising
advertise it for sale.

THE ALBERT

DICKINSON

COMPANY

SEEDS

Timothy
Clover
Flax
Agricultural

CHICAGO

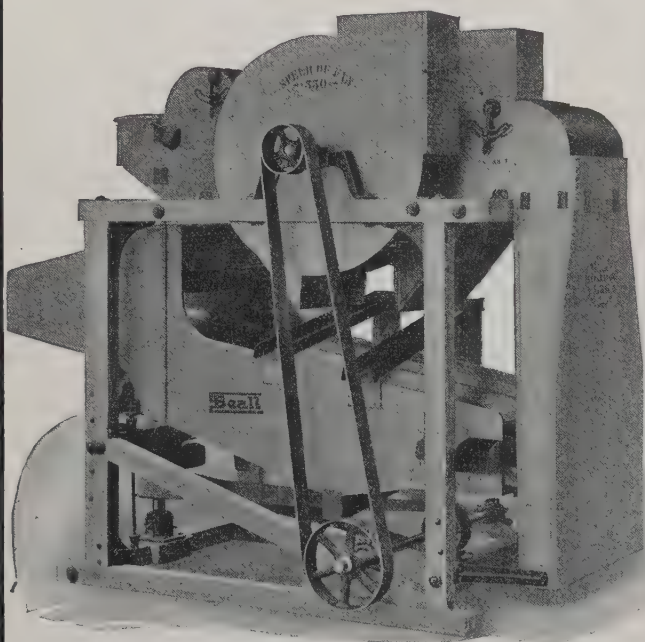
MINNEAPOLIS

Grain Bags
Pop-Corn
Seed Corn
Beans, Peas

Beall

THE MARK OF QUALITY

The New Beall Rotating Warehouse and Elevator Separator



Built in Ten Sizes

An easy way for a grain dealer to make money is to raise the grade of the grain he buys

and that is exactly what this cleaner is doing for others, and will do for you.

Cleans perfectly wheat, shelled corn, oats, rye, barley, and all small grains.

Recent improvements put it in a class decidedly to itself—a machine that instantly appeals on account of its simplicity and the thorough manner in which it cleans all kinds of grain.

Write for full information today.

You never lost any money investigating.

The Beall Improvements Co., Inc.
DECATUR, ILLINOIS

YOU can get CARS

if you proceed properly in filing your order and follow it up persistently, earnestly and stubbornly with duplicating Car order blanks. By using these blanks you make **formal order** for cars to suit your needs, and the **duplicate** copy provides you with undeniable evidence that the station agent received the order.

These formal orders give the station agent a feeling of responsibility, and often bring cars when verbal orders fail. By keeping a carbon copy of each order for cars would-be shipper has a complete record of all efforts to obtain cars—a certain proof in case of delay by the railroad company.

CAR ORDER BLANKS contain spaces for the name of the station, date, railroad, number of cars for immediate loading, number of cars for loading in—days, kind of grain, capacity, destination, and a space for the signature of the shipper. Also space for the date when the order is filed with the agent, and for the signature of the agent acknowledging its receipt.

These blanks are bound in book form. Each book contains 50 originals, 50 duplicates and 3 sheets of carbon. The originals are machine perforated so may be readily torn out, while the duplicate remains in the book.

If you wish station agent to heed promptly your orders for cars use **Form 222 C. O.**, Price 50 cents.

GRAIN DEALERS JOURNAL
315 So. La Salle Street Chicago, Ill.

POST YOUR PRICES

TODAYS PRICES	
OATS	45
CORN	77
WHEAT	101
RYE	118
BARLEY	134
CLOVERSEED	950

and stick to them. The farmer likes to know he is getting a square deal.

An attractive, convenient Bulletin for posting the prices you are bidding for grain, seeds and hay, will save you money.

Price Posting Bulletin Form 1 is made of heavy No. 30 gauge steel, japanned so that it will not rust. Top piece contains the words "**TODAY'S PRICES**" in bold, white type; punched for screw hooks. Six card holders are hung to top so as to provide room to post prices bid for different commodities.

Card holders are turned over on top and bottom edges so they will hold the cards firmly. Complete set of cards bearing the words, Oats, Wheat, Rye, Barley, Y. Corn, W. Corn, Flax, Clover, Timothy, Alsike and Hay; and 10 sets of digits so that the price of each commodity may be easily and quickly posted.

Order Form 1.

Size 14x19½ inches.

Price \$2.00

GRAIN DEALERS JOURNAL
315 South La Salle St. Chicago, Ill.

GRAIN DEALERS JOURNAL

Published on the

10th and 25th of Each Month

by the

Grain Dealers Company

315 S. La Salle Street, Chicago, Ill.

CHARLES S. CLARK, Manager.

SUBSCRIPTION RATES

To United States, Canada and Mexico, semi-monthly, one year \$1.50; one copy 10 cents.

To Foreign Countries within the Postal Union, prepaid, one year \$2.50.

A Red Wrapper on your Journal means your subscription has expired.

THE ADVERTISING

value of The Grain Dealers Journal as a medium for reaching progressive grain dealers and elevator men is unquestioned. The character and number of advertisements in its columns tell of its worth. If you would be classed with the leading firms catering to the grain trade, place your announcements in the Journal.

Advertisements of meritorious grain elevator machinery and supplies and of responsible firms who seek to serve grain dealers are solicited.

LETTERS

on subjects of interest to those engaged in the grain trade, news items, crop and leaking in transit reports are always welcome.

Entered at the Chicago, Ill., Post Office as Second-Class Matter Aug. 5, 1898.

CHICAGO, ILL., AUGUST 25, 1913.

AN INDIANA scooper, who has developed a weakness for scooping into his own basket things he was not entitled to, has again gotten into trouble and is again enmeshed in litigation.

AN UNGUARDED belt recently whirled a Kansas elevator operator into the next world, and the elevator owner now wishes that all machinery had been well protected long ago. The accidents due to unguarded machinery can easily be prevented, and without much expense or labor to anyone. In this connection it is interesting to note that an Ohio elevator owner has been sued for \$25,000 and a New York elevator owner has been sued for \$50,000, as the result of death of employees thru alleged accidents.

THE A. T. & S. FE R. R. has done more than any other railroad to reduce the loss of shippers' grain in transit, and what is more, it has succeeded in keeping its rolling stock in such condition that few shortages occur in shipments forwarded in Santa Fe cars from points on its own line. However, the Santa Fe is not satisfied with the results attained, and is still seeking to bring about improvement in its own facilities, as well as in methods of weighing and loading, and every shipper will be interested in reading what Mr. Maegly of the Santa Fe has to say elsewhere in this number. He has given careful study to the shortage problem and done much to alleviate this trouble.

EACH DAY brings the Underwood Tariff Bill nearer to enactment, and each day seems to bring the United States nearer to the free importation of grain from other countries, a fact which believers in higher prices must bear in mind.

A NORTH DAKOTA elevator was recently wrecked by a derailed fast passenger train, and the owner is now wondering if his lease of site on railroad right of way will preclude the possibility of his collecting any damages from the railroad company. If he had built his elevator on his own land, the railroad claim agent would have been around before breakfast the next morning to settle the loss.

FAKERS seem to delight in swindling grain dealers by claiming to represent the Grain Dealers Journal and collecting money for subscriptions, without in any way proving their authority to receive money. The latest complaint comes from Nebraska, where a man signing himself "W. B. Tipton" is collecting subscriptions and giving blank receipts, which could be purchased at any store for 5c a hundred. The representatives of the Grain Dealers Journal have cards bearing our name, formal printed receipts, and a bountiful supply of literature of special interest to those engaged in the grain business.

THE KANSAS state grain inspection department is having trouble in a new section. The Wichita Board of Trade has organized a grain inspection department of its own, and most of the members of the Board have agreed to use only the service of the Board's Dept. Two inspection departments are a curse to any market, and while the inspection department, which is dominated by politicians, cannot be expected to give entirely satisfactory service, it is a step in the right direction. All different parties at interest should have some say in the making of the rules, the hiring of men and the reviewing of the grading, but it is hardly right that any one class of the trade should have all the say. Wherever the inspectors are dominated by buyers or sellers, they must, in spite of themselves, involuntarily lean toward their employers. The nearer any inspection department can come to being free from all influences, except those which make for careful, conscientious, honest grading, the better will it be for all concerned. Weights and grades by disinterested men are always more desirable. When appeals committees, rules committees and inspectors committees are made up of one shipper, one receiver and one purely commission man, inspectors are sure to be free from political domination, and also sure to be continued in office so long as they may desire and during good conduct and conscientious work.

AT THE present writing many terminal elevators are under construction in the United States and Canada, and every one of these plants will be of fireproof construction, thus reducing the fire hazard and the cost of insurance to a minimum.

CIVIL SERVICE rules are an excellent protection to the public theoretically, but few politicians have any respect for them, and as is now being done in Illinois, the new party in power is determined to secure places in the grain inspection department for its followers. The trade will pay the bill.

IF THOSE entrusted with the enforcement of the Pure Food Act continue to confiscate grain containing weed seeds, every country elevator man, if not every farmer, will find it necessary to install a first class cleaner, that he may place his grain in condition to insure its getting past the food inspectors. Recently a number of cars of barley have been confiscated, because of foreign matter contained. If shippers would more accurately describe their shipments, the government officials would not have the opportunity to interfere with their business.

AN IDAHO correspondent, who writes us about building a new bulk handling grain elevator, says that his section will pay out \$30,000 for sacks this year. Then they will have to pay out as much more next year, if they continue to handle their grain in sacks. This amount would build a couple of good bulk handling elevators and pay for their operation indefinitely. One Pacific Coast mill which has been transporting wheat from Portland to Los Angeles in bags, is changing its steamer so as to transport wheat in bulk, expecting thereby to reduce the time needed to load and unload the vessel, as well as the expense, more than one-half.

FREE STORAGE of grain has forced many country elevator operators into bankruptcy, yet notwithstanding this fact and despite the country grain buyer's antipathy for giving away what has cost him so dearly, some dealers in Illinois persist in granting free storage to farmers, and a few are even going to the expense of advertising in nearby newspapers the fact that they are giving away their storage room. Some Indiana dealers are doing likewise, and no doubt will continue, until the Public Utilities Commission catches them at it. Then there will be trouble. When the country grain buyers settle down to a straightforward grain merchandising business, they will be likely to realize a profit from each transaction, but none have ever benefited from free bags, free storage or free money. Any boy can give away operating capital, but it takes a real merchant to turn it over repeatedly and realize a permanent profit.

THE NUMBER of mysterious fires in grain elevators recently would seem to indicate that heavy winds, combined with light foundations, has resulted in much machinery getting out of line, resulting in hot boxes and fires.

THE FIRE insurance companies have made such a generous credit for the installation of man lifts in country elevators, that the wonder is every elevator man does not establish this easy route to the cupola. No grain man thinks of building a new elevator without equipping it with a man lift, in fact none can afford to do otherwise.

INDIANA grain dealers propose to have a good time at Lake Maxinkuckee next week, whether they are able to have a representative of the Agricultural Department at the meeting or not. Even tho no one representing the Agricultural Department presents the views of the Department on the new corn grades, the dealers will discuss the tentative rules more than anything else.

REPARATION CLAIMS must receive the approval of the Interstate Commerce Commission before the railroads can pay them. These claims must also be filed with the Commission within two years or they are outlawed. The railroads have frequently escaped paying claims by holding them beyond the two-year limit. Shippers filing reparation claims shud follow the advice of W. M. Hopkins, given in Grain Carriers column of this number.

GRAIN DEALERS everywhere owe it to their business to peruse carefully the tentative grades for corn, formulated by the Department of Agriculture and published on page 281 of this number. The department is disposed to give ample opportunity for discussing the new rules, and a formal hearing will be granted in Washington in the near future, at which time grain dealers will be invited to send delegates to present their views. Grain dealers having any criticisms to offer, or suggestions to make, are welcome to do so thru our columns.

MONTANA, which has long been looked upon as purely a mining state, seems determined to be classed among the leading grain states of the country. Notwithstanding the state has a large number of elevators, forty three new ones, either contracted for or completed, were reported in our news columns during July and August. The state has a well organized grain inspection department, and at a recent meeting of the grain dealers ass'n the organization was infused with new life and the determination to accomplish something along the line of promoting the common interests of the trade, so that henceforth there is no excuse for ignoring the claims of Montana for recognition as a grain growing state.

BOYS emphasized their right to play around an Illinois elevator by starting the machinery recently, causing serious injury to the proprietor. Other elevator owners and operators who recognize this right of the boys, should, for the sake of their families, increase their accident insurance.

ILLINOIS has at last awakened to the necessity of good roads, and has now a law on the statute books appropriating a considerable sum annually for road work. The grain dealers are among those who will be greatly benefited, as well-made highways will enable the farmer to haul to market all year around. This will greatly reduce the fall and spring rush that now overwhelms the country elevators, the railroads, and the terminal elevators.

THE TENTATIVE grades for commercial corn, followed by the U. S. Department of Agriculture, are expected to be enforced in interstate and foreign commerce on the 1913 crop, so grain dealers who have any suggestions to make need to bring them forward quickly. The new rules are clear and concise, and permit of closer classification than any rules yet presented. Still the government does not hold them up as being the acme of perfection, and presents them for the purpose of obtaining the views of the trade.

SHIPPERS who are anxious to avoid heavy losses, as the result of sales based on illegal freight rates, should petition the Interstate Commerce Commission and their representatives in Congress to provide a heavier penalty for railroads failing to post and quote the legal rate. Too many freight solicitors have wilfully misquoted rates, to the great loss of confiding shippers. It is time decided steps were taken to insure the protection of the shipping public from this misrepresentation on the part of the carriers. As the law now stands, scheming freight agents are encouraged to prey upon the shipping public for their own benefit.

CARS LOADED too full for inspection are entitled to prompt unloading. The shipper may have erred in loading car too heavily, but that does not relieve the receiver from looking after the grain after it arrives in his market. To permit delay in unloading a heavily laden car of corn three or even two weeks, is absolutely inexcusable. Corn always needs prompter handling, and when it does get hot, as the direct result of the receiver's dereliction, in having it unloaded, shipper is not entitled to a heavy discount because of the result. It does not seem fair for receivers to delay or even permit the delay of the unloading of corn 20, 30 and 40 days, and expect the shipper to guarantee the quality during all that time.

LOADING FEES ALLOWED IN GREAT BRITAIN.

A private switch or siding in England entitles the owner to a rebate on any goods he may ship. The English law is very specific, and seems to be founded on the principle that the general freight rate charged includes payment for service other than transportation. In recognition of the cost of establishing and maintaining terminals, the English law provides that any shipper may demand from the railroad company the different charges which go to make up the rate assessed against his shipment. In case a dispute arises where the railway company does not provide warehouse accommodations, or perform terminal services, the matter may be referred to the Railway & Canal Commissioners, who shall have jurisdiction to determine what is a just and reasonable allowance for the facilities furnished by the shipper.

The elevator owners of the U. S. in the early days of the business were given lower rates than anyone else, but gradually this recognition of their service to the railroad company was done away with, and today the only elevator men favored in this line are those receiving an elevation allowance, and some railroads insist that this is paid simply as a reward for the prompt release of rolling stock.

Grain shippers who keep a freight depot open every day of the year, for the receipt of bulk grain, and load it into car without expense to the carrier, are surely entitled to a lower rate than the shipper who handles his grain thru the local freight depot, or scoops it, and those grain shippers who provide a switch to their elevator also are entitled to more of an allowance than any others.

It may require some educational work to bring about a recognition of the shipper's rightful claim for reasonable allowance, because of his provision of terminal facilities. While the tap lines and switches may not entitle the shipper to a division of the rate, he surely merits some allowance for that part of the transportation service of which the railroad company is relieved thru his investment. The early work of association promoters was in the hope of obtaining a loading fee for country elevator men who kept their houses open every day of the year, in the hope of relieving them of the competition of the scoopers, who had no investment and were in the business only when grain was moving to market in large quantities.

Operators of country elevators are just as much entitled to a loading fee as ever, but they are not likely to obtain it, unless they keep up the agitation.

SHIPPERS who are influenced by an extra $\frac{1}{4}$ c per bu. to do business with unreliable receivers, generally non-members of the local exchange, as a rule give up several cents for their privilege.

BETTER GRAIN WILL MERIT HIGHER PRICES.

The farmer who provides mechanical facilities for cleaning, storing and loading his grain on the farm is an extreme exception, but occasionally he is to be found. One has recently been discovered in the neighborhood of Hutchinson, Minn., who has erected a large elevator with a driveway thru the middle, over a first-class dumping scale. This farmer has discontinued bagging grain. He takes it from the machines in wagon boxes and elevates to any one of fourteen bins, after it is weighed and dumped. All bins are of hopper bottoms, and machinery is driven by a gasoline engine.

If every farmer would provide modern facilities for classifying and cleaning his grain, all would get a much better price for their product when they did bring it to market. The trouble with the average farmer is that he thinks he can cajole the local grain dealer into paying the market for any stuff he is willing to tender, and occasionally some very wet grain is offered, which could be much more advantageously dried at home than in the country elevator.

If every grain buyer would refuse to pay more for grain than it is worth, in other words, if all would buy on the same grades by which they must sell, then farmers would soon come to accept the prices bid without kicking. Too often does the country dealer permit the farmer to induce him to pay more for off-grade stuff than it is worth, and the oftener he raises his own bid, the more thoroly does he convince the farmer that only by kicking will he be able to obtain the top of the market for his grain. When dealers stop raising their own bids, the farmers will stop kicking. Experience has proved that it is far better to post prices each morning and stick to them thruout the day.

The farmer who provides first-class facilities for improving the quality of his grain and places it in marketable condition before hauling it to the elevator, is entitled to the highest price, not because his name is Bill Bulldozer, but because his grain is of superior quality, and clean.

CORN HANDLERS everywhere must consider acidity, in forming an estimate of the quality of corn under consideration. The Agricultural Department has been devoting considerable attention to the acidity of corn for several years, and on pages 284-285 of this number we are able to give some of the results of the investigations conducted, all of which merit careful consideration in connection with the tentative corn grading rules. The time is near at hand when acidity must be given more consideration by buyers and sellers.

TENTATIVE GRADES FOR Corn Formulated.

Washington, D. C., Aug. 22.—Under authority from Congress contained in the Agricultural Appropriation Act which authorizes the Secretary of Agriculture to fix definite grades for grain, the U. S. Department of Agriculture, through its Office of Grain Standardization of the Bureau of Plant Industry, has completed the necessary investigations to justify the fixing of definite grades for commercial corn. On the basis of these investigations, the following tentative grades for corn have been formulated. With the view to having the public fully informed regarding the grades before they are finally adopted, their publication has been authorized by the Secretary. Prior to the final fixing of these grades by the Department, a formal hearing will be held in Washington the latter part of September or some time during October, the exact date to be announced later.

GENERAL RULES.

1. The corn in grades No. 1 to 5 inclusive, must be sweet.
2. *White corn*, all grades, shall be at least 98 per cent white.
3. *Yellow corn*, all grades, shall be at least 95 per cent yellow.
4. *Mixed corn*, all grades, shall include corn of various colors not coming within the limits for color, as provided for under white or yellow corn.
5. In addition to the limits indicated, No. 6 corn may be musty, sour, and may also include corn of inferior quality, such as immature and badly blistered.
6. All corn that does not meet the requirements of either of six numerical grades by reason of an excessive percentage of moisture, damaged kernels, foreign matter or badly broken corn; or corn that is hot, heat damaged, fire burnt, infested with live weevil, or otherwise of distinctly low quality, shall be classed as sample grade.
7. In No. 6 and sample grade, reasons for so grading shall be stated on the inspector's ticket or certificate.

8. Finely broken corn shall include all broken particles of corn that will pass through an 8x8-mesh wire sieve, the diameter of the wire to be twenty-five thousandths of an inch.
9. Badly broken or "cracked" corn shall include all broken pieces of kernels that will pass through a 4x4-mesh wire sieve, the diameter of the wire to be thirty-six thousandths of an inch, except that the finely broken corn as provided for under Rule 8 shall not be considered as badly broken or "cracked" corn.
10. It is understood that the damaged corn; the foreign matter, including cob, dirt, finely broken corn, other grains, etc.; and the badly broken or "cracked" corn, as provided for under the various grades, shall be such as occur naturally in corn when handled under good commercial conditions.
11. Moisture percentages, as provided for in these grade specifications, shall conform to results obtained by the standard method and tester as described in Circular 72, Bureau of Plant Industry, U. S. Department of Agriculture.

Note: Acidity. The Grain Standardization investigations of the Department have shown that the "degree of acidity" is a most important factor in determining the soundness of corn, and likewise its safety for storage and for shipment. While the results of these investigations clearly indicate that the acidity test affords a means of accurately measuring the quality or degree of soundness of any given lot of corn it has not been included in the grade requirements for the reason that neither the grain inspection departments nor Boards of Appeal are familiar with or equipped for making such determinations in commercial grading. The results likewise indicate that sound corn of good quality does not exceed 22 c.c. in acidity; that corn with an acidity in excess of 26 c.c. has already undergone partial deterioration and is unsafe for storage; while corn showing an acidity of 30 c.c. or over is distinctly of inferior quality, such as would in almost every instance be classed as sample grade under the present system of grading. The degree of acidity, as herein expressed, represents the number of cubic centimeters of tenth normal alkali solution required to neutralize the acid in 100 grams of corn.

TENTATIVE GRADES FOR COMMERCIAL CORN FORMULATED BY THE U. S. DEPARTMENT OF AGRICULTURE.

Grade Classification.	Maximum Percentage of Moisture.	Maximum Percentage of Damaged Corn, Exclusive of "Heat Damaged" or "Mahogany" Corn.	Maximum Percentage of Foreign Material, Including Dirt, Cob, Finely Broken Corn, Other Grains, etc.	Maximum Percentage of Badly Broken or "Cracked" Corn, Not Including Finely Broken
White, Yellow and Mixed Corn.				
No. 1.....	14.0	2	1	2
2.....	15.5	4	1	3
3.....	17.5	6	2	4
4.....	19.5	8	2	4
5.....	21.5	10	3	5
6.....	23.0	15	5	7

Sample—See General Rule No. 6 for Sample Grade.

Asked— Answered

[Readers who fail to find information desired on any subject of interest to grain dealers should send us their query for free publication here. The experience of your brother dealers is worth consulting. Replies to queries are solicited.]

CREDIT FOR PROMPT UNLOADING.

Grain Dealers Journal: (1) If a car is unloaded the first day, is the railroad company required to give us credit of one day, so that if we take three days to unload the next car, the railroad cannot collect demurrage? (2) Is the railroad company required by law to furnish burlap for lining grain cars on demand of shippers?—Brule County Farmers Co-operative Co., Kimball, S. D.

Ans. (1) Under what is known as the "average demurrage agreement," the railway company allows credit on cars released ahead of time and applies it on cars held over time. Full information concerning this plan is given on page 7 of C. M. & St. P. tariff G. F. D. 2485-1 and supplement No. 6.

(2) Regarding the furnishing of burlap for cars to be loaded with grain, there is no law, state or interstate, requiring carriers to furnish burlap; and those roads which do so are acting voluntarily. The railway company is supposed to place its cars in fit condition for grain before offering them for loading. Cars are not tendered by the railroads for loading in the central grain markets until they have been coopered and placed in condition to transport bulk grain without leaking. The Rock Island coopers most of the cars it offers for loading in the grain surplus states.

MINIMUM WEIGHTS TOO ARBITRARY.

Grain Dealers Journal: The maximum weight on a 60,000-lb. capacity car is 66,000 lbs. of wheat or rye. The minimum on an 80,000-lb. car is 75,000 lbs., leaving no provision for shipping anything between 66,000 lbs. and 75,000 lbs. This seems unjust as we often want to ship about 70,000 lbs., but can not get a car without paying freight on 75,000 lbs.—Geissler Bros., Ableman, Wis.

Ans. If you wish to ship 70,000 lbs., order a car of 70,000 lbs. capacity and be careful not to put more than 70,000 lbs. into it, you will then be charged for the actual weight, but not less than 64,500 lbs.

If, on your order for a 70,000-lb. car, the railroad company furnishes an 80,000 car, you will be charged the minimum on the 80,000 car, if you put a single pound more than 70,000 lbs. into it.

If on your order for 70,000-lb. car the company furnishes you 70,000-lb. car you can put more than 70,000 lbs. into it, and without being charged more than the actual weight.

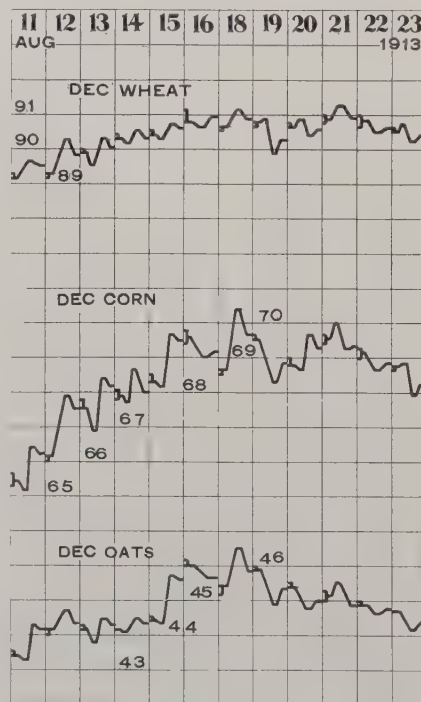
Effective Sept. 1 the tariffs will provide that when a carrier for its own convenience furnishes a car of capacity greater than that ordered the shipper shall be charged on the basis of the capacity of the car ordered.

WHY USE OVERHEAD DUMP?

Grain Dealers Journal: Why do grain elevator operators, especially in Indiana, use the windlass and ropes to raise the wagons so as to get the grain out? Does not the slow operation of such a dump delay the handling of grain and prevent the operator from obtaining the full handling capacity of the elevator leg, shellers and cleaners?—J. G.

Chicago Futures

Opening, high, low and close on wheat, corn and oats at Chicago for two weeks are given below. For complete collection of similar charts back ten years see The Journal's Chart Book.



DAILY CLOSING PRICES.

The closing prices of wheat and corn for December delivery at the following markets for the past two weeks have been as follows:

DECEMBER WHEAT.													
	Aug. 11	Aug. 12	Aug. 13	Aug. 14	Aug. 15	Aug. 16	Aug. 17	Aug. 18	Aug. 19	Aug. 20	Aug. 21	Aug. 22	Aug. 23
Chicago	89½	89¾	90	90¼	90½	90½	90½	90½	90½	90½	90½	90¾	90¾
Minneapolis	89¾	89¾	89¾	89¾	90¾	91	90¾	89¾	90¾	90¾	90¾	90¾	89¾
Duluth	90	90½	90½	90¾	91¼	91½	91¼	90¾	90¾	90¾	91¼	91¼	90¾
St. Louis	89¾	90	90½	90¾	90¾	90¾	91	91	91	91¾	91¾	91¾	91
Kansas City	85½	85¾	85½	85¾	85¾	86¼	86¼	85¾	85¾	86¼	86¼	86¼	85¾
Milwaukee	89½	89¾	90	90¼	90½	91	90¾	90¾	90¾	90¾	90¾	90¾	90¼
Toledo	92¾	93¾	94	94¾	95¼	95¾	95½	94¾	95¼	95¾	95¾	96¼	96¼
New York	97½	97¾	97¾	98¼	98¼	98¾	98¾	98¾	98¾	98¾	98¾	98¾	98¾
†Baltimore	90½	91¼	91¾	91¾	92	92¾	93	92¾	92¾	92¾	92¾	92¼	92
Winnipeg	87½	88	88¼	88¼	88¾	88¾	88¾	87¾	88¾	88¾	88¾	88¼	88
Liverpool	102¼	102¼	102¼	102¾	103¼	103¾	102¾	103	103¾	103¾	103¾	103¾	103¾
*Budapest	125¾	125	125	126¾	126¾	127¾	127¾	126¾	127¾	127¾	127¾	128	127¾
DECEMBER CORN.													
	Aug. 11	Aug. 12	Aug. 13	Aug. 14	Aug. 15	Aug. 16	Aug. 17	Aug. 18	Aug. 19	Aug. 20	Aug. 21	Aug. 22	Aug. 23
Chicago	66½	67½	68½	68	69½	69½	69½	68¾	69¼	69¼	68¾	68½	68½
Kansas City	68¾	69¾	69¾	69¾	70¼	70¼	70¼	70¼	70¾	70¾	70	69½	69½
St. Louis	67	68¾	68¾	69	70	70	70¾	69¾	70¼	70¾	69¾	68¾	68¾
*Liverpool	67¾	67¾	67¾	67¼	67½	68¾	68	68	67¾	68¾	68¾	68¾	68¾

*October delivery. †September.

Letters From Dealers

[Here is the grain dealer's forum for the discussion of grain trade problems, practices and needed reforms. When you have anything to say of interest to members of the grain trade, send it to the Journal for publication. It may draw out the views of others.]

A BIG WAGON LOAD OF OATS.

Grain Dealers Journal: We note an item in the Journal stating that W. L. Johnston received a load of oats at Ulah station, Ill., having on 119 bus. We wish to state that we can go him better, as last Dec. 16 we received a load from Chas. Kingdon consisting of 125 bus. and 30 pounds, over two tons.—El Paso Elevator Co., El Paso, Ill.

REMEDY FOR CANADA THISTLES.

Grain Dealers Journal: I notice Berne Grain & Hay Co. inquiry as how to kill Canada thistles. I would like to give them my remedy, after trying for 17 years different ways and all failing.

As corn cobs have no market value here I had my tenant haul them onto the thistle patch. The thistles came up thru the cobs in the summer they were put on, but very spindling. We mowed them off so that they could not seed, then fall plowed them under cobs and all. The next spring we put the ground in corn and we have never seen a thistle there since. I do not think it will fail in any case if tried out in this way.

Continuous cutting will kill them out too, but one must shave them off at the ground every week for a while. Deep cutting or plowing only cultivates them.—Yours, J. S. Cameron, Elliott, Ill.

RAILROADS WILL SEEK TO ELIMINATE CAUSES OF GRAIN SHORTAGE CLAIMS.

Grain Dealers Journal: In the June 10th Journal you published a cartoon portraying the wicked railroad squeezing the poor grain shipper. That cartoon referred specifically to the recently published tariff deductions of one-eighth of one percent on all kinds of grain except corn (one-quarter of one percent on corn) in the adjustment of claims where grain is lost from cars during transit, such deductions to offset the unavoidable, or invisible normal shrinkage, or wastage, incident to the handling and transportation of bulk grain between points of weighing at the loading and unloading stations—no matter how grain tight the cars may be.

The immediate purpose of this letter and one or two that will follow will be to present the question in all its aspects for the information of the grain shipping and receiving public, believing that a full and free discussion will help clear the atmosphere and possibly avoid friction and misunderstanding.

In the first place, allow me to say that no one has labored harder or more earnestly than I in an effort to help solve the grain shortage problem. I may better say the grain shortage-overage problem, and never for one moment have I permitted the belief that that problem will not ultimately be solved with entire fair-

ness of all concerned, the producer, shipper, carrier and receiver of grain.

The man who ships grain is certainly entitled to get from the railroad company a receipt for what he actually loads and ships in each car subject to the recognized official weights, the carrier desiring only to safeguard against imposition. If he has taken the pains to determine accurately the weight that he puts into the car, he should not hesitate to certify that fact to the carrier's forwarding agent at the time of shipment. The certificate so furnished should be specific. It should specify the scale, the car initials and number, the date, the weight of each draft and the total weight loaded, the name of the weigher, also whether the grain passed directly to car or passed through elevator bin or sink between scale and car.

In this way the shipper would give the carrier evidence of his entire good faith and enable the carrier's employees and terminal weighmasters to check the weight intelligently. Such shipper should safeguard his scale and the accuracy of his weighing record of first entry and the certificates based thereon by substantially the same precautions as those maintained by well organized terminal weighing departments.

In this connection the unanimous recommendation of the conference of five of the leading terminal weighmasters held in Chicago should be of particular value. [They are published elsewhere in this number.]

In view of these recommendations of the leading grain weighmasters, it is the plain duty of the shipper to observe these wholesome regulations and precautions, in support of the accuracy of the weights certified from day to day.

On the other hand, it is the plain duty of the transportation company to tender

suitable cars for bulk grain loading. A suitable car is one that can be made grain tight by the shippers exercising ordinary care in the proper application of the cooperage material.

Let us bear in mind that carriers' box car equipment must be available for the many kinds of loading; that even in the heavy bulk grain originating districts the average usage of the carrier's box car for bulk grain will not exceed 2 to 2½ grain hauls during each year. Obviously, therefore, all cars available for bulk grain loading cannot be alike in respect to the application of the cooperage to make the car grain tight. Every shipper has the right to reject a car that is unusable.

Where the railroad company has exercised proper care in tendering suitable cars and the shipper has used due diligence in cooping his grain in the car, such shipper is indeed entitled to the fullest practicable measure of protection, and likewise such carrier.

On the other hand, the consignee or receiver of the grain, or those declaring the outturn weight for them, are equally bound to maintain trustworthy scales, creditable weighing and weight record and fair and intelligent car inspection if, indeed, their report and record of the outturn weight and the condition of the car is to receive full consideration.

The regulations recommended by the terminal weighmasters, above referred to, apply with equal force to both the loader and unloader of the grain. The consignee should be prompt in furnishing carrier's delivering agent certificates setting forth the actual unloading weights.

And right here let us revert to the point of loading. Should not the loader of the grain make it possible for the unloader to investigate any excessive variation in weight while the car is at hand

and the grain in the scale. By excessive variation, I mean the variation either over or under exceeding the normal that is to be expected in handling grain under the varying conditions. The Minnesota State Law, which doubtless was devised in the interest of grain shippers, contains a wholesome requirement along these lines, to wit:

TO SHIPPERS OF GRAIN.

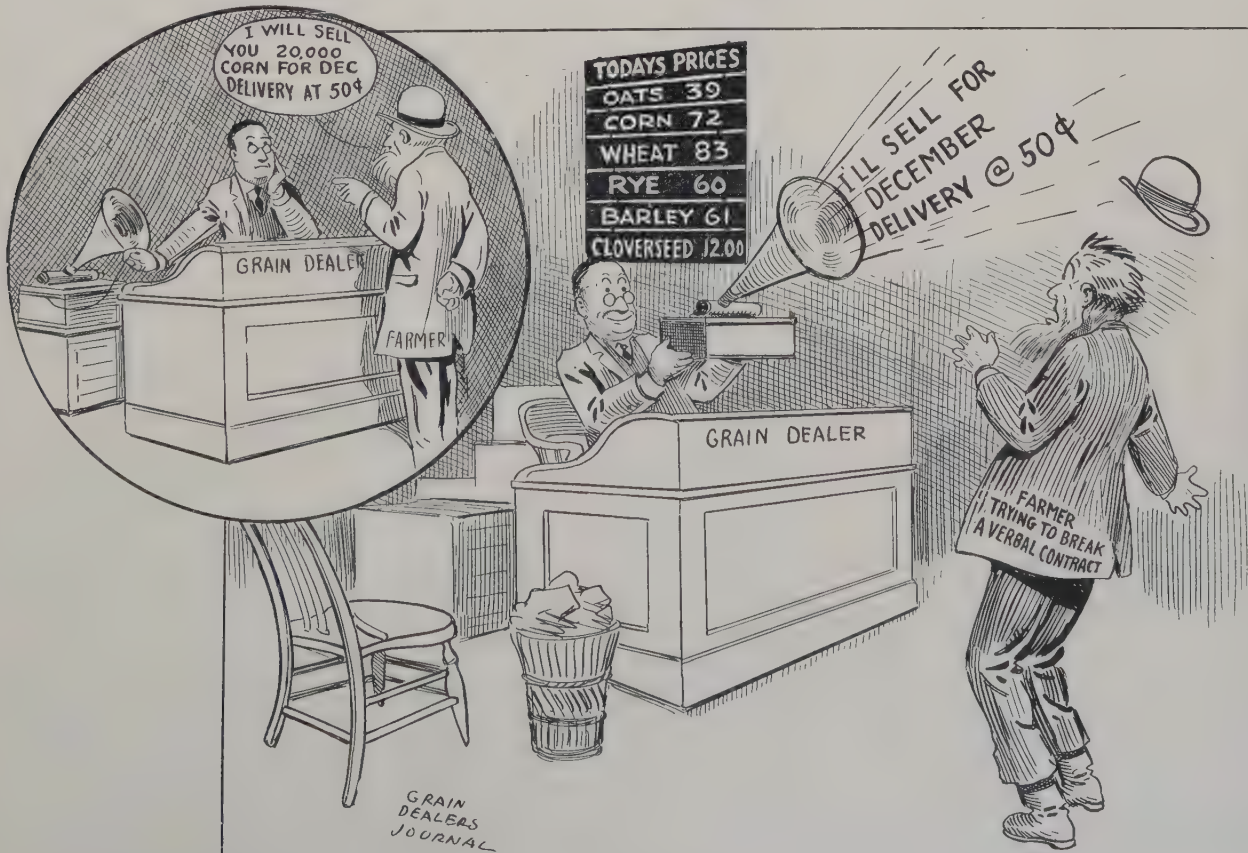
Section 2101, Chapter 28, Revised Statutes, 1905, reads as follows:

Section 2101, Shipper to Affix Tags—Every shipper of grain shall fasten upon the inside of each car shipped by him a card giving the number and initials or other distinctive mark of such car, the date of shipment and the exact weight of the grain in such car, as claimed by the shipper. If he fails so to do, the official weight shall be made prima facie evidence of the quantity of grain shipped in such car.

Anticipating full co-operation by grain shippers and receivers individually and through the medium of their organizations, each carrier, a member of the Western Trunk Line Committee, Trans-Missouri Freight Bureau, Southwestern Tariff Committee and Central Freight Association, has individually endorsed the recommendation quoted below:

"That the carriers' claim departments and the weighing and inspection bureaus co-operate with local freight agents, terminal grain weighing departments and grain door reclamation and cooperage agencies in devising means of eliminating the causes of grain shortage claims."

The carriers are shaping their activities in the direction recommended, and to that end with the co-operation of shippers and consignees it should be entirely practicable to run down promptly the causes of excessive variance, over and under, between loading and unloading weights on carload lots of bulk grain.—Yours truly, F. C. Maegly, Asst. G. F. A. the A., T. & S. Fe Ry., Chicago.



A Scheme that Might Prove O. K. with Farmers Who Try to Welch on Verbal Contracts.

CORN ACIDITY INVESTIGATION.

By H. J. Besley and G. H. Baston, under direction of Dr. J. W. T. Duvel, in Charge Grain Standardization Investigations, Bureau of Plant Industry, U. S. Department of Agriculture.

Investigation of corn acidity has been carried on by the Office of Grain Standardization, U. S. Department of Agriculture, for a period covering the past three years. Nothing of the results and very little concerning the nature of the work has been made public. It is the purpose of this article to acquaint the grain trade in a general way with the work covered by the Office of Grain Standardization in corn acidity investigations and to place herewith for their information a brief summary of the more important results. The investigational work was undertaken with a view of learning the range in the acidity of commercial corn, and to ascertain the reliability of the acid test as a factor in determining the soundness of corn.

In order to give a clear understanding of what is meant by "acidity of corn," it may be well to explain here that corn acidity does not refer to an adulterant or to an unnatural and deleterious substance which has been added, but to natural acid-reacting substances which all corn contains and which impart to it a certain degree of acidity. These substances are present throughout the kernel, but the greater part by far are found in the germ and are known as fats. Fats are unstable organic compounds which are easily decomposed, and when decomposition takes place substances are formed which are known chemically as fatty acids. It must be clearly understood that corn which is unsound, out of condition, and damaged, contains more acid than corn which is sound, in good condition, and free from damage, because the agencies which cause deterioration of the kernel as a whole automatically decompose the fats in the germ and liberate or develop from them compounds with stronger acid properties.

The amount of acid found in corn can be accurately measured and is referred to as the "degree of acidity" of the corn. The degree of acidity is expressed numerically as c. c. (cubic centimeters). For example, 14 c. c., 16 c. c., or 22 c. c. means that 14, 16, or 22 cubic centimeters of alkali solution of known strength (tenth normal) was required to neutralize the acid in 100 grams of corn.

ACIDITY DETERMINATIONS have been made on several thousand samples representing corn on the farm, as received at and shipped from country elevators and terminal markets, as loaded at seaports for export, and as discharged at foreign ports, together with representative samples of special lots of corn used in experimental work of storage, drier, and transportation, carried on by the Office of Grain Standardization.

The investigations show that there is a wide variation in the amount of acid existing in commercial corn and that this acid can be accurately measured. It establishes as a fact that corn which is sound and free from damage contains less acid than unsound or damaged corn. In a general way, the investigation also shows that the degree of acidity is directly proportional to the percentage of damage and to the commercial grading at terminal markets, and inversely proportional to the percentage of germination; that is, the lower the percentage of damage, the lower the acidity; the better the commercial grade, the lower the acidity; and the lower the percentage of germination, the higher the acidity. Drier

experiments show that there is no material change in the acid content of the same corn before and after drying.

Altho it will not be attempted in this article to give detailed results, the charts and information below will serve to introduce to the grain trade the significance of corn acidity investigation and to bring before it the possibilities of the acid test as a factor in determining the soundness of corn.

OATS should become bolder in view of corn advance. To the casual onlooker, 80c corn looks like 50c oats. The visible acts as a dead weight, but even 20 million bushels in plain sight should not hold prices down forever.—Southworth & Co.

KANSAS farmers and stockmen will ask that the tariff on Argentine corn be removed so that it may be imported for feeding purposes, owing to the failure of the Kansas corn crop. This information was given out Aug. 21 by George B. Ross, state grain inspector, after a tour of inspection thru southwestern Kansas.

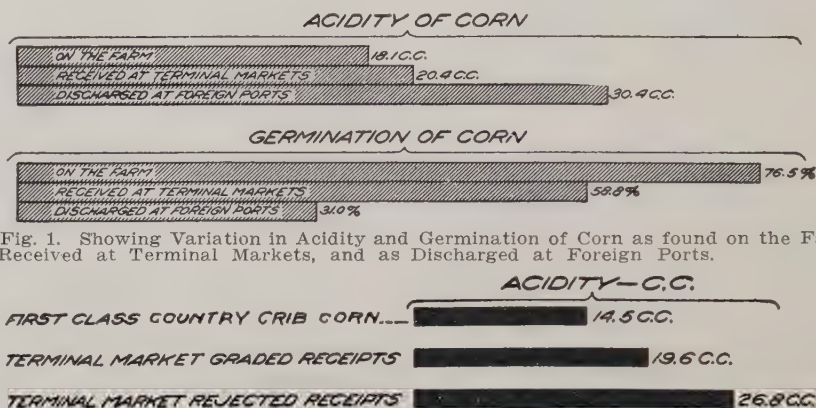


Fig. 1. Showing Variation in Acidity and Germination of Corn as found on the Farm, as Received at Terminal Markets, and as Discharged at Foreign Ports.

Fig. 2. A Comparison of the Amount of Acid found in Freshly Shelled, Country Crib Corn in Excellent Condition and of First Quality with the Acidity of Graded and Rejected Receipts of Corn, as Received at Terminal Markets.

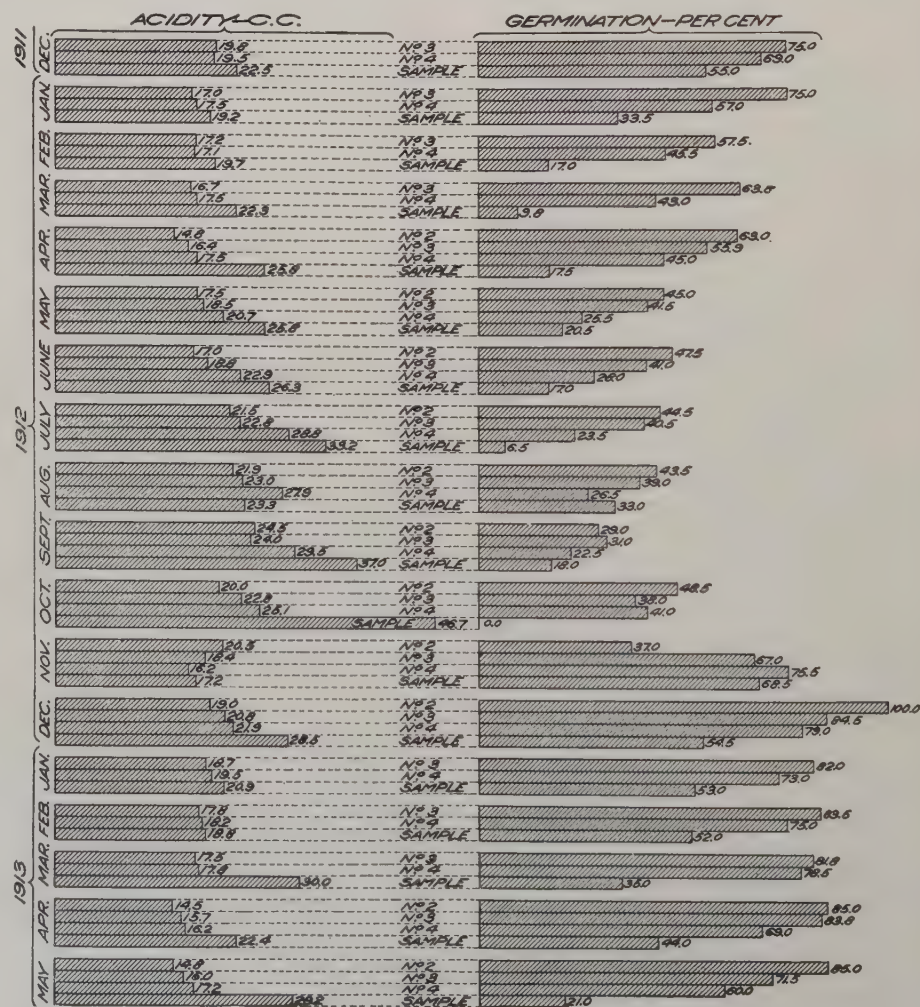


Fig. 3. Average Acidity and Average Percentage Germination of Grades by months of Corn Received at a Terminal Market from December, 1911, to May, 1913, inclusive. Attention is called to the Increase of Acidity and the Decrease of Germination from the High to the Low Grades, and to the Decrease of Acidity and the Marked Increase of Germination upon the Arrival of the New Crop in November.

MULLINGS OF A GRAIN

Trader.

BY BILL.

It is a wise trader who knows when to "stop"—his losses.

Where are the old traders, who used to fight it out alone in the pit, making or losing millions. The big traders now are generally backed by a clique.

Some people think that you have to fall in the gutter before you can trade on the "curb."

A little Grain of Drama—(Scenery; Hot winds out West) First Act: The market closed wild and excited with a two cent advance. Last act: (Slow music to the tune of "Little Rain Drops") Time (next morning, 9.30 A. M.) Amid an avalanche of selling orders the bottom fell out of the market.

Fiction generally pictures the grain man, as having more "ups" and "downs" than the ordinary mortal, and as being pale and careworn but in reality did you ever meet a healthier or more cheerful set of men.

To Mr. Northwest Bull: Fetch that old skeleton out of its closet Black Rust and scare the Bears with it.

COMING CONVENTIONS.

Sept. 5, 6 and 7, Lake Maxinkuckee (Culver P. O.), Ind.—The grain dealers and millers will have a three days' outing. On Saturday, Sept. 6, a representative of the Agricultural Dept. will meet the dealers in the gymnasium for a discussion of the new corn grading rules proposed by the Dept.

Sept. 10-11, Grand Rapids, Mich.—Michigan Bean Jobbers Ass'n will hold its 21st annual meeting at Hotel Pantlind.

Oct. 2, Danville, Ill.—Illinois and Indiana shippers will hold a banquet.

Oct. 14, 15, 16, New Orleans, La.—Grain Dealers' National Ass'n will hold its 17th annual meeting.

Oct. —Ohio Grain Dealers' Ass'n will hold its fall meeting in Columbus.

We think the Grain Dealers Journal very valuable.—S. J. Clevenger, Philadelphia, Pa.

A CORN SHOW will be held at Dallas, Tex., in February, 1914, in connection with the state fair. C. P. Bull, executive secretary of the National Corn Exposition, is at work organizing a committee to arrange the show.

Leaking in Transit

Grain dealers can help brother sufferers in the collection of claims for loss by reporting to Grain Dealers Journal, Chicago, for free publication, the initials, number, place, date and condition of cars seen leaking grain in transit.

Recently we have received reports of the following leaking or bad order cars:

C. I. & L. 3398 was wrecked at Plano, Ill., Aug. 23 and leaked oats badly.—Jeter & Jeter.

Grand Trunk 23496 passed thru Odell, Neb., Aug. 22, loaded with yellow mixed corn, on local west bound, with south door open.—L. King, mgr. Odell Farmers Elevator Co.

Soo 27730 passed thru Sycamore, Ill., Aug. 22 leaking wheat badly.—Wm. Murphy, with Great Western Grain Co.

P. R. 7970 passed thru Deer Grove, Ill., Aug. 22, leaking white oats at bottom of car because floor boards were too short. Fixed leak by nailing board over hole. Car was billed from Lyndon, Ill., to Chicago.—B. L. Beach, agt. Neola Elevator Co.

C. & O. 9806 passed thru Manson, Ia., Aug. 19 leaking oats at corner. Repaired car as best we cud, but train only stopped a few minutes.—A. Hakes.

Great Northern 37818 passed thru Pipestone, Minn., Aug. 19 leaking barley at end where siding was bulged on account of broken end post. Fixed leak the best I cud.—H. T. Fitzpatrick, agt. Northwestern Elevator Co.

C. & O. 9285 leaked grain in C. B. & Q. depot at Omaha, Neb., July 17, while being switched.—H. Broome, scale expert with Richardson Scale Co.

Mich. Cent. 28219 passed thru Prairie City, Ia., Aug. 16, eastbound, leaking white corn over drawbar. Agent notified train crew, but train left with car still leaking.—Prairie City Grain & Stock Co.

C. M. & St. P. 72250 passed thru Trent, S. D., Aug. 15, en route Baltic, S. D., to Chicago, leaking barley at side door post.—H. Hendrickson.

C. B. & Q. 102102 was set out at Pender, Neb., Aug. 14 with siding bulged out and leaking yellow corn at end. Repaired leak the best I cud.—R. P. Mason, with Holmquist Grain & Lbr. Co.

Union Pacific 70608 reached Sioux City, Ia., Aug. 13 leaking shelled corn badly from a bulged side. Saw about 25 or 30 bus. scattered along right of way. Train crew stopped leak.—J. C. Mullaney, with J. J. Mullaney.

C., B. & Q. 26339 passed thru Reynolds, Neb., Aug. 13 leaking at both ends. Repaired leak as best we cud.—Gregory Bros.

C. & E. I. 35492 passed thru Reynolds, Neb., Aug. 13 leaking at end and side. Fixed leak as far as possible while train stood here.—Gregory Bros.

P. R. R. 79140 passed thru Neponset, Ill., Aug. 7 leaking wheat at short floor board. Car lost about 10 bus. while standing here. Trainmen repaired leak before proceeding.—W. H. Hayes, mgr., Neponset Farmers Grain Elevator Co.

C. B. & Q. 106678, 108414 and 95538 passed thru Neponset, Ill., Aug. 6, leaking wheat at end of cars.—W. H. Hayes, mgr. Neponset Farmers Grain Elevator Co.

M. & O. 19160 passed thru Neponset, Ill., Aug. 1, leaking wheat at door post and under end of sheathing.—W. H. Hayes, mgr. Neponset Farmers Grain Elevator Co.

C. & N. W. 70042 leaked wheat badly at end of car July 17 while being switched in C. B. & Q. depot at Omaha, Neb.—H. Broome, scale expert with Richardson Scale Co.

C. M. & St. P. 47566 arrived at Yale, Ia., Aug. 9, leaking oats at side door. Leak was caused by broken door post. Car set out at Yale for repairs.—J. B. Hayes, mgr., S. Hanson Lbr. Co.

Great Northern 280574 passed thru Sherman, S. D., Aug. 9, leaking wheat at bottom near side. Car was new and it looked as if leak was caused by short flooring boards.—L. E. Swatman, agt. Duluth Elevator Co.

Great Northern 18992 passed thru Haviland, Kan., Aug. 8, leaking at door post.—Gus Oswald of Oswald-Koelsch Grain Co.

Mo. Pac. 34333 passed thru Lohrville, Ia., Aug. 6, westbound leaking yellow shelled corn at corner of car.—Peter Greenfield, jr., agt. Wright & McWhinney.

ACIDITY—C.C.

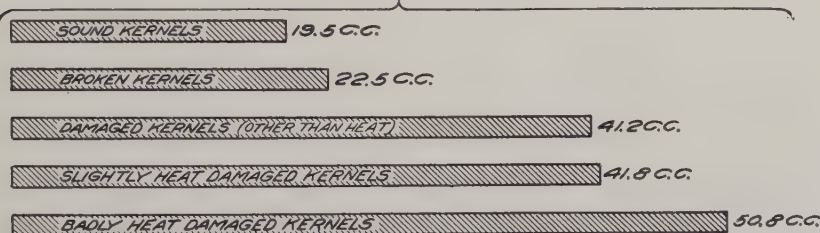


Fig. 4. Shows the Result of Acid Determinations made on Mechanical Separations of Terminal Market Receipts, and Represents an Average of Analyses of about 3,000 Cars, received from December, 1911, to May, 1911, inclusive.

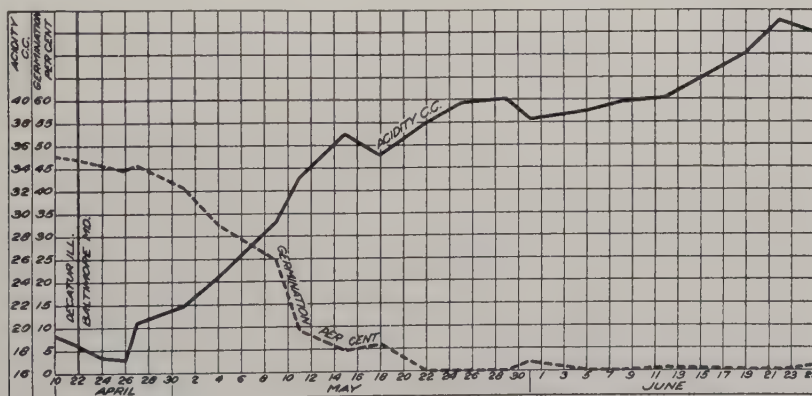


Fig. 5. Represents Change in Acidity and Germination of a Car of Corn in Transportation and Storage Experiment. Loaded at Long Creek, Ill., Apr. 10, 1912; arrived at Baltimore Apr. 22, and held on track until in Badly Heated Condition June 25, 1912.

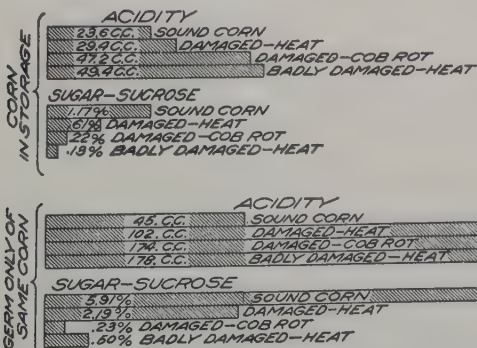


Fig. 6. Represents Corn under Varying Stages of Deterioration and was made from the Results of a Special Storage Experiment. Shows Amount of Acid Proportional to the Degree of Deterioration, and that Where there is an Increase in Amount of Acid there is a Corresponding Decrease in Amount of Sugar, and it shows further that the Source of the Increase in the Amount of Acid is Mostly in the Germ.

Crop Reports

Reports on the acreage, condition and yield of grain and field seeds, as well as on the movement to country markets, are always welcome.

CANADA.

Regina, Sask., Aug. 10.—During the last month the weather thruout the province has been generally favorable to the crops. Warm weather alternating with liberal showers has brot on the grain satisfactorily, so that harvest will commence as early, if not earlier, than last year. In 1912 the first cutting took place about Aug. 16, and altho it may begin in some favored localities as early as the 10th it is not expected to be general much before Aug. 15. No damage whatever has been reported from rust or frost up to the time of writing. A few districts have been damaged by hail, but none of these have covered a very wide area, the Rosthern district and the country around Edenbridge having been perhaps the worst sufferers. The crop under wheat for 1913 is 5,740,249, an increase of 356,157 acres over 1912, or 6.6 per cent. This increase is somewhat less than was expected, in view of the amount of plowing which was done last fall. The acreage of oats shows an increase of 8.9 per cent, as against 10.45 per cent last year. The acreage under this crop is 216,630 acres in excess of last year. Barley shows the greatest percentage of increase of any crop, namely 14.9 as against 9.04 last year. The difference in acreage this year is 40,038. Flax has lost ground, the acreage showing a decrease of 144,514, or 13 per cent less than last year.—Saskatchewan Dept. of Agriculture.

IDAHO.

Roberts, Ida., Aug. 13.—Crops fine, bumper year is looked for.—Deahl Bros. Elvtr. Co.

American Falls, Ida., Aug. 11.—Harvesting now in full blast, promise of best crop ever harvested, will be 800,000 bu. marketed here. Average yield will probably exceed 25 bu. quality all that can be desired. Cut wheat, in first class condition is beginning to come in. Weather fine. There is some seeding of winter wheat being done on summer fallow, farmers experimenting some with early sowing.—H. C. Ehrlich, mgr. American Falls Mlg. Co.

Jerome, Ida., Aug. 11.—We are now harvesting the best crops in our history. Wheat promises an unusually heavy yield, especially on alfalfa sod; some fields expected to make as high as 100 bus. while 60 bus. will be quite common. North of us in the dry winter wheat country crops that promise 40 bus. early in July were in some cases totally destroyed by killing frost on July 13, which did no damage here. Oats and barley are also turning out well and we hope there will be a demand for our surplus of grain.—William Wagner, mgr. The Jerome Mlg. & Elvtr. Co.

ILLINOIS.

Weston, Ill., Aug. 15.—Corn crop 75 per cent of normal. Oats 30 bus.—Graves & Hurburgh.

Fairbury, Ill., Aug. 15.—Oats making 25 bus. Corn prospects for $\frac{3}{4}$ crop.—F. L. Churchill.

Galton, Ill., Aug. 20.—Crops helped by recent rains, particularly corn.—Chas. H. Ruple & Co.

Benson, Ill., Aug. 18.—Oats average 35 to 40 bus. per acre. Corn prospects 40 to 50 bus.—James Shields.

Chatsworth, Ill., Aug. 15.—Corn fair and will make 80 per cent of a crop. Oats made 33 bus.—Delaney & Fallon.

Mahomet, Ill., Aug. 12.—Oats threshing done, made average 15 bus. Corn hurt about 30% with drought.—Wm. Wykle.

Crescent City, Ill., Aug. 14.—Corn good and will make normal crop. Oats making 25 to 30 bus. per acre.—Risser & Dale.

La Hogue, Ill., Aug. 15.—Oats making 35 bus. corn crop; best ever seen here.—Wilson E. Bush, mgr. Egley Bros. & Bush.

El Paso, Ill., Aug. 16.—Oats made 32 bus. Corn prospects are for $\frac{3}{4}$ of a crop.—W. G. Nelson, mgr. El Paso Elvtr. Co.

Goodwine, Ill., Aug. 20.—Oats here good half crop. We look for about two-thirds corn crop. Pasture is beginning to start up since recent rains.—Goodwine Grain Co.

Watseka, Ill., Aug. 14.—Oats made 60% normal crop, corn will make normal crop.—H. W. Bell, mgr. Watseka Farmers Grain Co.

Sheldon, Ill., Aug. 13.—Oats threshing from 12 to 40 bus.; average about 27 bus. Had a fine rain, which will help late corn.—L. T. Hutchins.

Fairview, Ill.—Oats yielded from 15 to 50 bu. to acre. Corn crop poorest for years.—W. H. White, mgr. Fairview Farmers Elvtr. Co.

St. Joseph, Ill., Aug. 19.—Crops poor owing to long drouth. Oats little more than third crop, corn less than half crop.—J. W. McGee.

Panola, Ill., Aug. 21.—Oats about all threshed; average 30 bus. Corn looking good; we expect a good crop. Fall plowing good.—Leo Raymond.

Georgetown, Ill., Aug. 19.—Oats crop very light, 5 to 20 bus. of medium grade. Outlook for corn crop much improved by recent rains.—C. B. Spang.

Rugby, Ill., Aug. 20.—New corn crop prospects good; about 15 per cent of old corn left in farmers' hands. Oats made 30 bus. per acre.—H. M. Harris, Agt. Rogers Grain Co.

Kempton, Ill., Aug. 20.—Corn good. About 15 per cent of old corn left in farmers' hands. Oats making 25 bus. per acre.—A. J. Hartquest, mgr. Kempton Farmers Elvtr. Co.

Tampico, Ill., Aug. 20.—Corn will not make over a two-thirds crop. Oats yield 20 to 60 bus.; will average around 30 bus.—R. F. Nelson, mgr. Tampico Farmers Elvtr. Co.

Graymont, Ill., Aug. 19.—Corn prospects are 50 bus. per acre. About 15 per cent old corn left in farmers' hands. Oats made 30 bus. average.—Joe Eymann, mgr. Farmers Elvtr. Co.

Flanagan, Ill., Aug. 19.—Oats averaging 35 bus. per acre. New corn prospects are for normal crop. About 15 per cent of old corn left in farmers' hands.—F. J. Cramer, mgr. Farmers Grain & Coal Co.

Springfield, Ill., Aug. 16.—Central Illinois has suffered sharply from drouth, oats good half crop. Still have a chance for a fair crop of corn; need more rain to keep it from shrinking.—C. O. Matheny & Co.

Cullom, Ill., Aug. 20.—Corn prospects are good; about 10% old corn left in farmers' hands. About 1,000 acres oats hurt by hail only averaged 8 bus. per acre. Our oats will not average over 20 bus. per acre.—Shearer & Shearer.

Wilton sta., Manhattan p. o., Ill., Aug. 12.—Threshing about half completed; oats average 30 bus.; best corn prospect in years; all earing out. Farmers holding grain for higher prices; a lot of old corn in this section.—R. E. K.

Germantown, Ill., Aug. 20.—Wheat crop very good. Oats a total failure and corn will hardly make half crop. Continued drouth and hot winds almost ruined our fine prospect of a corn crop.—Henry Simonson, pres. Hanover Star Mlg. Co.

Ivesdale, Ill., Aug. 14.—Threshing all finished. Wheat made from 20 to 35 bus. Oats from 8 to 45 bus. Corn will be about half crop. About two inches of rain fell this morning, which will be a great help to late corn, altho early corn is fired so badly that rain cannot do much good now.—Thos. W. Shultz, mgr. Baldwin Elvtr. Co.

Gays, Ill., Aug. 19.—Oats averaged 10 bus., light weight, otherwise good quality. Plowing for wheat not progressing very fast as ground is too dry for work. Wheat was good and we estimate the acreage will be three times as much as last season. Corn will make from half to two-thirds average crop. Early planting will make some corn, but late planting cannot make much. About 10% old corn in farmers' hands, which is not moving, as they expect to need same for feeding.—C. R. Widdick, mgr. Treat & Co.

INDIANA.

Goodland, Ind., Aug. 13.—Corn fine. Oats making 25 bus. per acre.—H. Mur-ray & Co.

Seafeld, Ind.—Aug. 13.—Corn crop prospect best ever saw. Oats made $\frac{1}{2}$ crop.—Schlademan Bros.

Mt. Avr, Ind., Aug. 14.—Oats here making about 30 bu. Corn prospects good as ever I saw.—Edwin Harris.

Jackson, Ind., Aug. 11.—Corn fine. Oats 30 bus. Wheat good, average 20 bus. per acre.—Geo. Off, Agt. Fox & Davis.

Sharpsville, Ind., Aug. 11.—Oats making 25 bus. per acre. Wheat fine, average about 25 bus.—Batchelor, Barlow & Batchelor.

Logansport, Ind., Aug. 12.—Oats making a good $\frac{1}{2}$ crop. Corn fine; 20% of old corn left in farmers' hands.—Chas. W. McCormick & Son.

Indianapolis, Ind., Aug. 21.—Our section of country has a fine crop of wheat and corn; oats are not so good.—B. C. Marsh, Irvington Grain & Feed Co.

Fairfield, Ind., Aug. 11.—Corn is above average both as to prospective yield and to acreage. Oats fair quality and good $\frac{1}{2}$ crop.—H. E. Rakestraw, prop. Seward & Rakestraw.

Effner, Ind., R. F. D. Sheldon, Ill., Aug. 14.—Oats averaged 30 bus. Corn fine, owing to recent rains.—W. B. Moore, agt. McCray, Morrison & Co.

Lincoln, Ind., Aug. 12.—Wheat was good, but acreage 60% of normal. Oats yield 35 bus. per acre, and test 31 to 33 lbs. per bushel.—Watkins & Cripe.

Burnettsville, Ind., Aug. 13.—Corn will make a $\frac{3}{4}$ crop. Oats averaging 10 bus. per acre. Wheat made 30 bus. per acre.—E. Shaffer, mgr. Burnettsville Elvtr. Co.

Walton, Ind., Aug. 12.—Corn is fine. Oats yield 30 bus. per acre. Wheat good and yield 30 bus. per acre. About 5% of old corn left in farmers' hands.—L. McFadden.

Monticello, Ind., Aug. 13.—Corn crop prospect best ever saw. Oats made 25 bus. per acre. Wheat was fine, but acreage short.—Loughry Bros. Mlg. & Grain Co.

Idaville, Ind., Aug. 13.—Wheat made 25 bus. per acre. Oats making 20 bus. per acre. Corn will be a normal crop.—W. N. Loughry, mgr. Loughry Bros. Mlg. & Grain Co.

Kokomo, Ind., Aug. 13.—Wheat being held by farmers for more money; oats being held, half crop here. Corn in Howard County never was finer; acreage large.—C. M. Barlow.

Galveston, Ind., Aug. 12.—Oats making 40 bus. per acre. Corn fine; 5% old corn left in farmers' hands. Wheat averaged 30 bus. per acre.—H. B. Seward, mgr. Galveston Grain Co.

Kendallville, Ind., Aug. 19.—Oats crop very short, 15 to 20% normal crop, wheat crop good, but acreage short. Corn suffered from drouth; will be about 75% of normal.—Campbell & Co.

Julian sta., Foresman p. o., Ind., Aug. 19.—Threshing considerably delayed on account of rain. Oats averaging 30 bus., good quality. Corn conditions are good; will have an average crop.—Chas. Russell, mgr. Lyons, Rich & Light.

Keystone, Ind., Aug. 19.—Oats about half crop, wheat normal, rye average crop, corn crop 10 per cent, best prospect in years. Hay average crop, mostly mixed clover, 50% timothy crop, barn hay good, stocked hay damaged. Shipping 200 cars out annually.—D. M. Light & Bro.

IOWA.

Highview sta., Webster City p. o., Ia.—Oats yielding 40 bus.—L. O. Eaton.

Robinson, Ia., Aug. 11.—Oats running about 35 bus., barley 20 bus.—Robinson Lbr. & Grain Co.

Milwaukee, Wis., Aug. 15.—Iowa reports indicate about the same falling off in production of barley compared with last year as in Wisconsin and Minnesota, and due to the same causes, namely, decreased acreage and smaller yield. Quality is good and generally better than last year. The berry is mostly medium weight or plump and generally sound, but quite a percentage light weight, caused by heat and drouth. Color is fairly good, some being bright, but the larger part more or less discolored. Acreage estimates as compared with last year range from 30% increase to 50% decrease and about one-half no change. The average indicates a decrease of 12%. Yield per acre estimates range from 10 to 35 bushels and average 22 bushels or 11 bushels less than the crop of 1912 and 3 $\frac{1}{2}$ bushels more than the crop of 1911.—E. P. Bacon Co.

Des Moines, Ia., Aug. 17.—The week was excessively hot and generally dry, but the heavy rains on the night of the 10th and the local showers that occurred on several other days gave sufficient moisture for present needs. The showers on the night of the 10th were better distributed than was indicated by the few telegraphic reports given in the last bulletin, but they were, in many localities, accompanied by high wind and severe squalls which did considerable damage to corn. The worst damage was done over a strip about ten to fifteen miles wide extending from Guthrie to Jasper counties. Within that area corn was badly lodged and some of it was blown down but much of it is up again, and the final output will not be reduced as

much as estimated soon after the storm. Damage was also done by the wind in other sections of smaller area, but the injury to the crop as a whole will be light in comparison to the vast amount of benefit resulting from the abundant moisture. The corn crop as a whole was greatly benefited, but the rain came too late to improve the early corn in the southern counties where the drought has been severe and of long duration. Late potatoes, garden truck, pastures, meadows, and fruits were also greatly benefited by the rains. Fall plowing has begun.—Geo. M. Chappel, section director, Iowa Weather Bureau.

KANSAS.

Long Island, Kan., Aug. 23.—Crops of all kinds short, except alfalfa seed.—Geo. H. Nash, mgr. H. Q. Banta.

Silica, Kan., Aug. 18.—Little grain moving, as wheat was cut short. Getting ready to sow as soon as it rains, dry and hot.—T. E. Anderson, mgr. Ellinwood Grain & Supply Co.

Lucas, Kan., Aug. 11.—Wheat threshing is about finished without a drop of rain during the entire threshing season, something that has never happened in any season for 35 years.—M. P. Thielen.

Topeka, Kan., Aug. 22.—The wheat crop in Trego, Gove, Logan, Wallace, south half of Thomas, Sheridan, west half of Graham, Ness, Lane and Wichita counties is a total failure.—E. J. Smiley, sec'y Kansas Farmers Ass'n.

Dorrance, Kan., Aug. 19.—We harvested 25 to 30% wheat crop. No oats, corn or feed will be raised on account of drouth. Feed crops shortest in twenty years. What wheat we had was of finest quality of turkey. Thousands of bus. of wheat will be fed on farms, owing to high price of feed stuffs. Threshing done; no wheat moving to market.—Cooper, mgr. Farmers Elvtr. Co.

KENTUCKY.

Paducah, Ky., July 24.—Corn crop fine; hay and oats very short, tho a fair crop of clover.—Bradley Bros.

MAINE.

Bowdoinham, Me., Aug. 21.—Southwestern drouth conditions now in Maine, except Aroostook County; crops late but holding on hard.—W. B. Kendall.

MARYLAND.

Loys sta., Graceham p. o., Md., Aug. 21.—Our yield of wheat not over 60% of normal on account of frost in May.—J. C. Pyle.

MICHIGAN.

Marion, Mich., July 31.—Hay crop here of fine quality but crop unusually short.—Ray Kent.

Melvin, Mich., July 31.—Oats making 50 bus. per acre. Wheat fine but acreage small.—Kerr Grain & Hay Co.

Lapeer, Mich., Aug. 19.—All grains were of good quality this season and outlook now indicates a good bean crop.—Lapeer Grain Co.

Vassar, Mich., July 31.—Corn crop fine. About 3% old corn left in farmers hands. Oats fine.—Chas. Harpham, mgr. Vassar Farmers Elvtr. Co.

Smiths Creek, Mich., July 31.—Corn crop fair. Oats fine and best in years. Wheat crop immense but acreage small. Hay is extra good.—J. Lindsay.

Jackson, Mich., Aug. 21.—Wheat was only a fair crop; quality very good. Oats in this section yielded below the average. Rye is a little below the normal crop but of good quality. Corn is suffering some from the drouth but recent rains are proving beneficial.—S. M. Isbell & Co.

Monroe, Mich., Aug. 7.—Quality of wheat in this section of the country is excellent. Oats we find are somewhat colored, due we think to extremely hot weather just before they were cut, right after a heavy rain, as we have had no rain since they were cut. In fact, it is getting too dry all round here for the corn crop and unless we have rain before long, it will begin to deteriorate very rapidly.—Amendt Milling Co.

MINNESOTA.

Dalton, Minn., Aug. 18.—Crops are only a fair yield, but the quality will be good if rains do not damage them.—Dalton Grain & Lumber Co.

Hallock, Minn., Aug. 12.—Wheat harvest started and threshing will start in 10 days. Yield good.—S. Scott, St. Anthony & Dakota Elvtr. Co.

Reading, Minn., Aug. 19.—Oats and wheat are as good a yield here this year as last and corn promises to be a bumper crop.—W. J. Klessig, mgr. Farmers Cooperative Co.

Raymond, Minn., Aug. 21.—Threshing has commenced and some new grain is coming in. The yield is average of fair quality. Corn is making good progress and will be a good crop.—Farmers Elvtr. Co.

Russell, Minn., Aug. 13.—Wheat, oats and barley will make good yield, some oats averaging 70 bus. per acre; barley 30 to 35; corn looking good; very little threshing done.—John C. Hanson, agt. Northwestern Elvtr. Co.

Minneapolis, Minn., Aug. 21.—Rains have delayed threshing in Minnesota, but no damage has been reported. Very little Bluestem has been threshed, but Velvet Chaff, barley and oats are almost completed. Some of the early threshing returns in wheat indicate better results than generally anticipated.—The Van Dusen-Harrington Co.

Milwaukee, Wis., Aug. 15.—Minnesota reports from the barley producing sections of the southern part of the State indicate materially smaller production than last year, due to decrease in acreage and lighter yield. Quality is variable, but is mostly good malting. The berry is largely medium weight or plump and sound and only a small proportion light weight. Some damage from heat and drouth, preventing filling. Practically all is discolored, but only a small proportion badly so. Acreage estimates as compared with last year are variable and range from 20% increase to 50% decrease, but only a small number at the extreme, and about one-third no change. The average indicates a decrease of about 11%. Yield per acre estimates range from 12 to 35 bushels and average about 22 bushels or 6½ bushels less than the crop of 1912 and 9 bushels more than the crop of 1911.—E. P. Bacon Co.

MISSOURI.

Asbury, Mo., Aug. 17.—Crops a failure, especially corn.—Chas. Kerr.

Kearney, Mo., Aug. 19.—Will have about one-half a crop of corn here.—Winn Grain Co.

Freeman, Mo., Aug. 22.—Will probably ship in corn: 20,000 bus. a complete failure.—Alex Glass.

Napoleon, Mo., Aug. 18.—The wheat crop is very good in this vicinity.—Napoleon Elvtr. Co., A. F. Wegener, mgr.

Cuba, Mo., Aug. 3.—Corn so far looks good but a good rain would help the maturing. Wheat is good and farmers delivering freely. Good rains would stop receipts.—E. Summa, Cuba Roller Mills.

MONTANA.

Straw, Mont., Aug. 11.—Crops are good; harvesting in full blast.—F. W. De Long, agt. Montana Elvtr. Co.

Missoula, Mont., Aug. 10.—Crops will average from 20 to 25 bus.—Frank A. Culton, pres. The Farmers' Elvtr. Co.

Wilsall, Mont., Aug. 14.—About 300,000 bus. of wheat will be marketed at this station.—J. E. Olson, agt. Occident Elvtr. Co.

Roundup, Mont., Aug. 15.—Crops look better this year. Last season shipped 25,000 bus. wheat and a car of flax.—Roundup Elvtr. Co.

Hobson sta., Philbrook p. o., Mont., Aug. 14.—Crops are very good thru this section, winter wheat especially will average 25 to 30 bus.—Hobson Farmers Mill & Elvtr. Co.

Monarch, Mont., Aug. 11.—Crop conditions in this section of Montana are very good; wheat threshing out 25 to 40 bus. per acre; oats also good.—J. A. Lindt, agt. Rocky Mountain Elvtr. Co.

Conrad, Mont., Aug. 11.—Crop here one-half of what it should be; some average pieces of winter and spring wheat and flaxseed; quality will be good; much new land broken.—J. E. Helms.

Ismay, Mont., Aug. 16.—Crop good, hardly as large as last year, flax acreage 25 per cent less than last year, corn increase 20%; wheat and oats about the same.—C. O. Wright, mgr. Farmers Elvtr. Co.

NEBRASKA.

Bushnell, Neb., Aug. 14.—Crops are good.—Bushnell Grain Co.

Turlington sta., Dunbar p. o., Neb., Aug. 21.—About a ½ corn crop in Otoe Co.—C. C. West, agt. Duff Grain Co.

Norfolk, Neb., Aug. 8.—The rains of the past few days insure 75% of a normal corn crop in this vicinity.—Salter Coal & Grain Co.

Odell, Neb., Aug. 22.—Will be no corn shipped from here this season; wheat crop a bumper; oats good.—L. King, mgr. Odell Farmers Elvtr. Co.

Wausa, Neb., Aug. 12.—Oats good quality; yield 30 bus. Good rain thru here on the 9th and 10th which will insure an

80% corn crop.—Chas. J. Johnson, agt. Saunders-Westrand Co.

Tangeman sta., Talmage p. o., Neb., Aug. 20.—The outlook now is that there will not be any corn to ship from this territory; just about enough to supply home demands.—F. B. Wallace, agt. Baker-Crowell Grain Co.

Trenton, Neb., Aug. 20.—On account of the extreme drouth, this vicinity will have very little grain to ship. Most of it will be sold to the farmers for feeding; very little fodder, let alone corn.—A. E. Walters, agt. Milbourn-Smith Co.

Tarnov, Neb., Aug. 21.—We are going to have a fair crop of corn. We have had two nice rains of about two inches; I think corn will make from 30 to 35 bus. Farmers are freely selling their old corn, so there is some hopes of a crop.—Louis Maier, mgr. T. B. Hord Grain Co.

NEW YORK.

Hobart, N. Y., Aug. 21.—The drouth has been quite severe in this section and except for a few scattered showers still continues. Oats will be much better than last year and a fairly good crop. Corn is used only for ensilage and is looking well; a little rain would make it a good yield.—Van Buren & Conkling.

NORTH DAKOTA.

Buxton, N. D., Aug. 21.—Crops look fine.—O. Jore, agt. Interstate Grain Co.

Cavalier, N. D., Aug. 20.—The crop is fairly good here this season.—D. Boyd, agt. State Elvtr. Co.

Marion, N. D., Aug. 18.—The new crop promises to be a big one, barring any mishap from now on.—R. D. Roberts.

Bantry, N. D., Aug. 9.—About one third less crop this season compared to that of last year. Harvesting has just started.—W. B. Crocker, agt. The Duluth Elvtr. Co.

Brantford, N. D., Aug. 18.—Crops around here are fine and about 30% harvested. Heavy rains the past week have delayed harvesting considerably.—O. A. Furdick.

Devils Lake, N. D., Aug. 14.—Harvesting of all small grain is general and the wheat is well filled, but owing to the dry weather in June and July the straw is thin and short; yield will be about 8 to 10 bus. per acre. The oats crop is fairly good but barley is a light crop.—T. J. Gagan, agt. National Elvtr. Co.

Minneapolis, Minn., Aug. 21.—The excessive heat and rains have delayed harvest in North Dakota somewhat. Harvest is fully one-third finished in the extreme northern part and with fair weather from now on should be completed the last of next week. The rains have improved barley, but most early-sown coarse grains and flax will be light. Threshing started this week.—Van Dusen-Harrington Co.

OHIO.

Arcanum, O., Aug. 19.—Outlook good for big corn crop.—The John Smith Co.

Yellow Springs, O., Aug. 22.—Have had dry season and corn crop will be rather short. Small acreage of oats but quality good; wheat crop unusually good.—The John DeWine Co.

Alexandria, O., Aug. 19.—The wheat crop here is above the average. Corn is also an average yield; prospects were for the largest in years, but the drouth will reduce the yield to an average. Oats were only 50% of last year.—P. M. Ashbrook.

Cincinnati, O.—This section has been suffering one of the worst droughts in many years, and it has done considerable damage to the growing corn, principally in the state of Kentucky. In some sections the farmers report a total loss. Only river bottom corn is showing up good.—S.

Sidney, O., Aug. 18.—Altho the oats crop in this territory was considerably short of last year, the yield is of fair average and the quality excellent. The condition of the growing corn is as good as was ever known, being equal to or better than last year's crop.—J. C. Custenborder, of E. T. Custenborder & Co.

OKLAHOMA.

Pond Creek, Okla., Aug. 22.—Not much wheat moving; farmers waiting for higher prices.—Pond Creek Mill & Elvtr. Co.

Muskogee, Okla., Aug. 19.—A long siege of drouth has ruined most of the corn crop of this section; there will not be one-fourth of a nominal yield.—H. Waldo.

Mountain View, Okla., Aug. 20.—Grain crops short on account of dry weather; will be some corn, kafir and maize but probably not enough to supply local demand. Farmers holding wheat for feed on account of high prices of corn, selling for 75c per bu.—E. R. Aubert, mgr. Chickasha Mfg. Co.

Wakita, Okla., Aug. 12.—Do not think corn in Oklahoma this year will average 20% of a crop. All forage feed will be light, owing to dry hot weather.—Agt. Ponca City Mfg. Co.

OREGON.

Scotts Mills, Ore., Aug. 11.—Grain crop is good in this vicinity.—Chas. Scott.

PENNSYLVANIA.

Idaville, Pa., Aug. 22.—We will have a good wheat crop and only about three-fourths oats and corn crop thru here.—G. C. Myers.

Philadelphia, Pa., Aug. 20.—The oats harvest in Berks County was all that could be desired, considering the weather which has prevailed in that section. The average yield ran about 28 to 30 bus. per acre. The wheat crop was somewhat better with an average of 35 bus. to the acre. Farmers are selling quite readily.—C.

SOUTH DAKOTA.

Platte, S. D., Aug. 22.—No crops here.—Booher & Sluiter, per John Sluiter.

Grover, S. D., Aug. 22.—Crops good; threshing started.—Agt. Northwestern Elvtr. Co.

Geddes, S. D., Aug. 20.—Crops are a failure around here.—A. H. Stauffacher, agt. Carlon Elvtr. Co.

Kidder, S. D., Aug. 12.—Threshing will commence about Aug. 18.—S. O. Nelson, agt. Cargill Elvtr. Co.

Stickney, S. D., Aug. 11.—Crop prospects from 35% to 50% of normal; quality good.—A. C. Crowley, agt. Farmers Elvtr. Co.

Spain, S. D., Aug. 12.—The crops quite good in yield and of very good quality; barley being first class.—Marshall County Grain Co., G. T. Roberts, mgr.

Freeman, S. D., Aug. 16.—Grain good quality; test 58 to 63 lbs. Corn good; a little hurt from heat but will harvest 100%.—Sam'l Walters, DeWald & Walters.

Strandburg, S. D., Aug. 11.—The cutting of grain nearly all finished and the crops are fully as good as last year. Threshing will be in full swing in three or four days. Rain all day yesterday, so this will put the corn crop in fine shape.—A. Fors, mgr. The Farmers Grain & Lumber Co.

Worthing, S. D., Aug. 20.—Shock threshing is about finished. Yield is good; oats, 40-60 bus.; wheat 16-30 bus. Prospects for a good corn crop were never better; we have had a light sprinkle of rain every day for two weeks which keeps the corn in good growing condition.—W. W. Thorpe, agt. A. H. Betts.

Minneapolis, Minn., Aug. 21.—In South Dakota the weather has been intensely hot, the temperature ranging from 93 to 102. The corn crop in the east central part is very poor, on account of the hot and dry weather, but in the southern part it is very good. Flax has suffered from the heat and drouth. The quality of the new-threshed wheat is good, testing 58 to 63 pounds. The headed wheat will not be fit to thresh for at least two weeks on account of recent rains.—Van Dusen-Harrington Co.

Milwaukee, Wis., Aug. 15.—South Dakota reports from the southeastern part of the state where barley is extensively grown, indicate a greater shrinkage in production as compared with last year than in the other states mentioned and due to decrease in acreage and smaller yield per acre. Quality is about the same as last crop, being generally malting and some choice. The berry is mostly medium weight and sound with some plump and a small percentage light weight, caused by heat and drouth. Color. It is generally discolored, only a small percentage being free from this defect. Acreage estimates as compared with last year range from 50% increase to 50% decrease and about one-third no change. The average indicates a decrease of 15%. Yield per acre estimates range from 5 to 33 bushels and average about 20 bushels or 8 bushels less than the crop of 1912 and 14½ bushels more than the crop of 1911, which was practically a failure.—E. P. Bacon Co.

TENNESSEE.

Lewisburg, Tenn., Aug. 22.—Corn crop cut very short; in some sections almost a complete failure.—Lewisburg Grain Co.

TEXAS.

Hereford, Tex., Aug. 13.—Our crops are flattering considering the dry weather.—E. N. Harrison.

Rockwall, Tex., Aug. 20.—We have a good average crop of oats and corn.—J. D. Williams, Lyon-Gray Lumber Co.

San Marcos, Tex., Aug. 20.—Our oat crop is good; about 50 bu. yield. Corn

is good; about 40 bu. yield. We will have no oats or corn to ship out, but will not have to buy corn until late spring. It has been dry, but we have plenty of rain just now. New corn is selling at 50c in the shock; oats 40c.—Lake & Griffin.

VIRGINIA.

Newport News, Va., Aug. 20.—Virginia and North Carolina have the finest prospects for corn that they have ever had. In our immediate section the prospects are for double the usual crop.—Dabney Brokerage Co.

WISCONSIN.

Gillett, Wis., Aug. 17.—Grain crops here are fine; the yield will be good.—Ankerson & Cole.

Genesee Depot, Wis., Aug. 13.—All grain is of good quality. Rye is yielding only 10 to 18 bu. owing to hail storm.—C. H. Fintel Co.

DePere, Wis., Aug. 9.—Crops are looking fairly well, and if weather continues right for harvest, unquestionably we will have a good crop.—The John P. Dousman Milling Co.

Ableman, Wis., Aug. 11.—Grain is all cut and threshing commenced. There seems to be a fair yield and good quality of grain with the exception of barley, which is somewhat shrunk.—Geissler Bros.

Madison, Wis., Aug. 1.—The average condition of crops in the state on Aug. 1, 1913, is as follows: Corn 94.2 per cent; peas 93.8; potatoes 93.1; beans 93.8; tobacco 87.7; pastures 10.23; buckwheat 94.1; alfalfa 95.7. The average yield per acre of alfalfa, second cutting, was 1.3 tons. The principal buckwheat producing centers report prospects for an average crop.—J. C. MacKenzie, secy. Wisconsin State Board of Agriculture.

Milwaukee, Wis., Aug. 15.—Wisconsin reports indicate a much smaller production of barley than last year, due to decrease in acreage and lighter yield. Quality is generally good, being practically sound and suitable for malting. The berry is mostly medium weight. Some is plump, but considerable light weight, due to damage from heat and drouth. Color. Practically all is discolored, but not badly, as harvest conditions have been favorable. Acreage estimates as compared with last year are quite variable and range from ½ increase to 40% decrease, but only a small number at the extremes and one-half no change. The average indicates a decrease of about 10%. Yield per acre estimates range from 10 to 40 bushels and average about 23 bushels or 10 bushels less than the crop of 1912 and about the same as the crop of 1911.—E. P. Bacon Co.

A FABLE.

Once upon a Time the Ultimate Consumer found himself Face to Face with the High Cost of Living. He decided that he was not getting his Money's worth; that he was Paying three Prices for his Bread and Beefsteak. He longed for the Good old Days, when everything cud be Had for the Asking.

"There is Something wrong," quoth he, "and I am Going to Find out what it is."

And it Came about that the Producer also developed a Grouch and was out with a Shotgun hunting for the Cause of his Troubles.

"I am not getting my Share," he lamented. "Somebody is Hogging all the Profits. I get only Fifty-six cents a bushel for my Corn, while the City Man has to pay Five cents an ounce for his Breakfast Food."

The Ultimate Consumer and the Producer got together and had a three Days' talkfest at the Hotel having the best Bar in Town. As they were Friends, they Agreed that neither One was the Cause of the High Cost of Living.

"It must be the Middleman," announced the Producer.

"What good is the Middleman? He is a Parasite sucking out Life Blood. The only Thing he Grows is his Whiskers and his Bank Roll. He spends his Days comfortably smoking Perfectos in his Mahogany-trimmed office. His only Worry is finding Ways to spend enuf of the Loot to Avoid a Money Stringency in New York. Down with the Middleman!"

"When I bring my Corn to market,"



Steering the Ship Requires a Steady Hand and a Clever Brain—Keep the Experienced Navigator at the Helm.

lamented the Producer, "he assures me that the Market has gone to the Demnition Bow-wows and that there is enuf Corn on hand to Build a Dam across the Atlantic. When he Gets thru with his Little Funeral Chant, I am Convinced that he won't get enuf for my Stuff to Pay the Freight."

"And when I want to Buy," chimed in the Ultimate Consumer, "the villainous Middleman tells me that the Farmers are Too busy driving Automobiles to Hoe the Potatoes and I have to Hock the Wife's diamond brooch to Raise the price to get a Peck of them."

"Let us be Logical," said the Producer in oracular tone. "This is the Real Dope: We wish to Remedy the High Cost of Living. The Middleman is the Cause of the High Cost of Living. Therefore, Eliminate the Middleman."

"At last We have Found the Way," shouted the Ultimate Consumer. And the Two immediately embraced to Express their Glee, and ordered Another drink.

"Now I will be Able to sell my Crops at the Full Retail Price," exclaimed the Producer.

"I will be able to buy my Supplies at Cost Price," shouted the Ultimate Consumer; and in Due course of Time both got Back home.

The Ultimate Consumer promptly sent the Producer an order for three Days' supplies, as he Figured that it Wud be cheaper to Buy in Large Quantities. He waited a Couple of Days and then instead of his Eggs and Beans, he Got a Letter from the Producer, informing him that All orders must be Accompanied with Cash.

"I am not Going to Pay for the Stuff until I see it," roared the Ultimate Consumer.

"I don't operate a Bank in connection with my Farm," responded the Producer. "The Middleman pays Me just as Soon as I hand him the Goods. You will have to Do the Same."

The Ultimate Consumer next ordered eighty-six cents' worth of potatoes. The Potatoes came at the leisure of the Fast Freight Line, whose motto was "Move each car Ten Feet Per Day; even If You Do move it Backwards." With the Potatoes came a Bill for Freight charges reaching the Grand Total of Four Dollars and Twelve Cents.

"Better take a Carload of Potatoes next Time," suggested the Kind-hearted railroad Agent. "They'll come in Handy in Case of Sickness."

But the Ultimate Consumer was a Determined man, and he Refused to become Discouraged. "The Principle is Right," he insisted, "but the Interest seems to be Lacking."

The Producer discovered that he Had to Spend Six Hours a Day to Keep books and Answer letters. The Ultimate Con-

sumer was Hard to Please and Poor pay; and the business took a lot of Correspondence. The Producer found also that his Corn fields were Getting weedy and his Pasture fence Needed repairing.

He Rose up one Day in his Wrath and Turned the whole Job over to his Wife. She had studied Bookkeeping in a Correspondence school five Years before they were Married, but she Cud not find her Textbooks. She was an industrious woman, tho, and she tackled the job energetically. She neglected her Children and lost her Fresh, Girlish look, trying to Keep up with the Procession, but it Was no Use. The daily mail Brot in an avalanche of letters, of which eight out of nine were kicks. The Complaints came in Thicker than Bears after a Market Collapse. The Producer stayed away from church one Sunday and Smoked for Three hours in Silence. His wife was Lying down, trying to Catch up the Sleep she had Lost running the new enterprise.

The Producer had a Statement of Receipts and Earnings for the First Six Months. He read it about Three times, and then Slowly stuck it in his Coat pocket and Walked to Town.

The Producer called on the Middleman.

"You're still a Friend of Mine, aren't you?" The Producer asked Nervously.

"Sure. What's wrong?" The Middleman asked.

"I've got a lot of corn I want to sell you," the Producer said.

"What's the matter with the Direct-from-Producer-to-the-Consumer business? You will Make more Money that way." The Middleman had Only the Best interests of the Producer at Heart.

"I'm thru with that Gag," answered the Producer Gloomily. "I tried it for Six Months, and I find that, if half a Dozen of my Customers pay up their Debts, and I collect Three Claims from the Railroad, I will make about Eighty Cents more by Selling Direct than by selling Thru you,—that is, provided I don't Take into Consideration the Time my Wife spent Trying to be a Middlewoman."

"But if You sell your stuff to Me, think of the Enormous Profit I will make," answered the Middleman. "Sometimes I Sell your Corn for as high as Three cents a Bushel More than the price I pay you. Why shud I have that Profit? I did not Grow the Corn; I did not Haul it to Market; I did not Consume it. I am Entirely Unnecessary, a Parasite, a Useless Cog in the Machine."

"Of course, I do Clean your Grain and Grade it so that Each shipment is Uniform. I also Store it Until Such time as there is Need for it. I have to maintain a big Plant equipped with Expensive Machinery, but That is of No interest to You. I make a Study of the Markets so as to Consign your Stuff to the Market offering the Best prices. This enables

Me to pay you more For your grain. I also Understand railway Tariffs and Know how to Ship the grain so as to Reduce this Cost to the Lowest possible Point.

"Furthermore, I pay you for your Grain just as Soon as it Slides down my Waggon Dump. If I want Money on that Grain, I Have to Pay Interest for it. I also Have to take the Risk of Market Fluctuations. Sometimes the Man I sell the Grain to is a Dead Beat and Does not Pay me for it. Sometimes the Railroad plants part of my Corn along its Right of Way instead of hauling it to market, then Carefully patches up the leak and Swears that my Scales are on the Blink and that I am a Natural Born Liar, anyhow. They will also Insist that Grain Shrinks an Awful Lot naturally and I ought to be Glad it did not Shrink out of Sight.

"You can Figure for Yourself what Enormous Profits I make." The Middleman paused a Little Warily. "Out of that Three Cents I have to Pay interest on the Money it Took to Build my Elevator. Sometimes I figure Depreciation, but often, in order to show a profit, I have to Hypnotize myself into Believing that the Plant is Getting More Valuable Every year. Mine is the Simple Life. All I have to do is to pay spot cash for your grain, take my Chances on What it will Grade, Sit up nights Figuring how the Market will be Three weeks ahead; and give Heartfelt Thanks if in Due Course of Time I receive Enuf to Pay the Interest on the Mortgage and to Square accounts with the General Store."

The Producer was Doing some six cylinder Thinking during this Discourse. When the Middleman Got thru, he said:

"You understand How it Is with me. I am Too busy with my Farm to Try to run any other Business. You always Were a Good Friend of Mine, and I'm mighty Glad to See you Make a Little Money, so I will bring My stuff to you Hereafter. I have to Buy my Wife a Phonograph as a Peace Offering; and I have Loaded my Shotgun with Cayenne pepper for the Benefit of the Next Reformer who Suggests Direct Selling."

THE SECRETARY of the Treasury has made public the regulations in connection with the deposit of \$50,000,000 of government funds with banks in the South and West. The banks are required to deposit as security for the money United States government bonds equal to at least 10% of the deposit. The remainder 90% may be secured thru high class state, municipal and other bonds, taken at 75% of their market value, and prime commercial paper taken at 65% of its face value. Only banks that are now government depositaries can share in the distribution. The regulations provide that the money is to be returned in four equal monthly installments, and that interest at 2% must be paid on average balances. In the Southern states 50% of the money will probably be deposited this month, and the remainder during September.

A HOLLOW TILE Corn Crib.

Illustrated herewith is a new form of corn crib construction for which the makers claim many advantages over the ordinary wooden-slat crib. The material used is hollow clay tile laid flat instead of end to end.

The exterior construction of the crib is clearly shown in one of the pictures. In order to prevent the entrance of rats and mice a galvanized wire screening is used to line the inside of the crib to a height of about five feet. At the top of the screening around the outside a down-turned plate projects out of the wall to prevent the rodents from climbing up the tiling and getting into the corn above the screen. Inasmuch as the loss from rats and mice is frequently heavy when grain is stored in unprotected cribs, this feature of the tile crib is a valuable one.

The bins are built circular. In the center is provided a ventilating cone which runs up to the chimney in the roof and provides for the escape of air. The owners claim for the tile crib much improved ventilating properties over the wooden cribs. In the first place the tile wall presents three times more open space than the slat construction. They also point out the fact that owing to the height of the crib and the further fact that the air in passing thru the corn is slightly warmed (except in the latter part of the winter and spring months), there is a powerful upward suction in the ven-

tilating cone, insuring rapid movement of the air despite the thick wall of corn thru which it must pass. A number of ventilating holes are provided around the bottom of the wall to admit air under the crib floor.

The labor-saving features of this crib are particularly worthy of note. At the top of the ventilating cone is provided a removable corn spreader, which catches the grain as it falls from the elevator and spreads it evenly in the crib. It also uniformly distributes the fine material, such as the silk, broken cobs and shelled corn, and thus prevents some of the corn spoiling thru being shut out from the air.

Under the doorways are provided shelling trenches. By means of this arrangement it is claimed that one man can do the work of three in shelling out the corn. The farmer can also make arrangements so that over one-half of the corn will flow by gravity out of the crib into wagons or feeding bunks.

The manufacturers claim for the tile bins that they are fireproof, permanent and, because of their round construction, safe from destruction by winds. Experiments with the cribs seem to prove the superior corn curing properties of the cribs; and the makers claim that their bins will put into marketable condition corn that in the old-style bins would become moldy. The improvement in the quality of the corn put into the tile cribs, the makers state, will more than pay back the slightly increased cost of this form of construction.

Feedstuffs

On account of the drouth the demand for millfeeds and linseed meal is very strong in the Southwest.

The Alcorn Milling Co., St. Louis, Mo., has been incorporated by E. T. Barrett, T. H. Cobbs, and T. F. Galt with a capital stock of \$50,000, and will engage in feed manufacturing.

The Lakeside Milling & Elevator Co., which operates an alfalfa mill at Emporia, Kan., has been placed in the hands of a receiver upon application of the stockholders. J. C. Copple has been appointed by the court to liquidate the assets of the company.

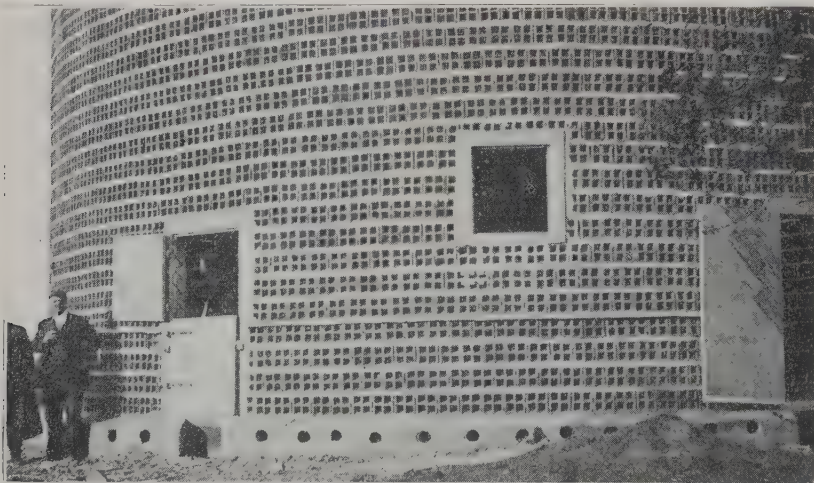
A feeder cattle contest will be conducted by the St. Louis Live Stock Exchange and the St. Louis Stock Yards Sept. 1-26 at which prizes totaling \$1,500 will be offered on cattle from Missouri, Illinois, Kansas, Colorado, Oklahoma, Arkansas, and Texas.

The Golden Grain Co., St. Louis, Mo., has employed Charles P. Wolverton, who will devote his time principally to the alfalfa end of the business. Mr. Wolverton leaves the Omaha Alfalfa Milling Co., Omaha, Neb., after nearly four years' service as its secretary and manager.

Dried sugar beet pulp is being imported from Germany by the Dreyer Commission Co., St. Louis, Mo., because of the scarcity of feedstuffs due to the long spell of hot, dry weather. The pulp, which pays a duty of 10% ad valorem, sells at \$27 per ton and comes both in bulk and pressed into bricks.

The Merchants Elevator Co., Minneapolis, Minn., was sued Feb. 3 for violation of the Pure Food Act because three carloads of feed barley were found to contain an unstated percentage of weed seeds and screenings. The company got custody of the barley again after executing a \$3,000 bond.

The suit of O. L. Hunter & Co., Chicago, v. Wissbeck-Grunwald Co., Milwaukee, began at Milwaukee Aug. 15. The plaintiff alleges a \$600 loss on five carloads of bran which it sold to the Wissbeck-Grunwald Co. last January, but which that company refused to accept and it was forced to ship them east at a loss.



Exterior View of Tile Crib Showing Vent Holes Around Base, also Door and Window Construction.



Roof Construction. Note Top of Ventilating Cone in Center of Building.



View of Completed Tile Corn Crib, Showing Elevator.

The Van Dusen Harrington Co., Minneapolis, Minn., was obliged to execute a bond for \$8,000 to get back eight carloads of feed barley which had been confiscated by government pure food officials because the barley contained weed seeds and screenings. Notice of judgment on this and two other cases has only recently been announced by the Department of Agriculture.

Ten carloads of feed barley belonging to the Brown Grain Co., Minneapolis, Minn., were confiscated by government officials at St. Paul Jan. 21 because the barley contained 10% weed seeds and 10% wheat and buckwheat screenings. The Brown Grain Co. obtained repossession of the barley upon the payment of court costs, amounting to \$20.99, and the execution of a \$10,000 bond.

Oil cake exported in the twelve months prior to July 1 included 76,262,845 lbs. of corn oil cake, 1,128,092,367 lbs. of cottonseed oil cake, and 838,119,654 lbs. of linseed oil cake, compared with 72,490,021 lbs. of corn oil cake, 1,293,690,138 lbs. of cottonseed oil cake, and 596,114,536 lbs. of linseed oil cake exported in the corresponding period of 1912, according to O. P. Austin, chief of the Bureau of Statistics.

The J. D. Frazier Co., Atlanta, Ga., has increased the capacity of its mixed feed mill from 2,000 to 3,000 sacks per day.

The National Alfalfa Millers Ass'n held its fifth annual convention at Wichita, Kan., Aug. 11 and 12, with about thirty members in attendance. All present reported a very strong demand for alfalfa feeds, on account of the shortage of other feeds, and also reported a shortage of alfalfa. The crop in the Southwest will probably be the lightest in many years. The shortage in Nebraska, Kansas and Oklahoma has caused buyers to go to Colorado, Utah, Idaho and Montana for alfalfa, and the farmers are demanding from \$15 to \$20 a ton. All of the millers reported that they could have contracted for far more meal than they could possibly produce, and all were optimistic about the business outlook. The Ass'n elected officers as follows: pres., Otto Weiss, Wichita, Kan.; first vice-pres., W. W. Church, Clinton, Okla.; second vice-pres., R. M. Wilcox, Superior, Neb.; third vice-pres., Dr. J. T. Axtell, Newton, Kan.; fourth vice-pres., A. M. Dicks, Cherokee, Okla.; secretary, Charles W. Wright, Wichita, Kan.

STRIPPING BARLEY IN Japan.

Japan is the home of intensified farming. Having plenty of labor and but little land, the Japanese have concentrated on making every acre produce the highest possible yield. Their success is shown by a comparison with yields in other countries. Using the average yield of Italy as a basis, India has a yield per acre of 51%, Germany 121%, France 122%, Egypt 153%, and Japan 213%.

Of Japan's gross area of 89,000,000 acres, but 15,000,000 acres are arable. Over 7,000,000 acres of the arable land is planted to rice, and the rest is planted principally to barley, rye, wheat and beans.

The government has taken an active part in the promotion of improved methods of agriculture and has passed laws to establish experiment stations, to conserve streams and prevent floods, to straighten roads, to utilize unproductive areas, to regulate the sale of artificial fertilizers, and to establish agricultural banks and co-operative credit societies.

On account of the cheapness of human labor, agricultural machinery is but little used. In the cultivation of rice, it is impossible to utilize machinery. In raising grain, which is to a large extent grown as an alternate crop with rice, every step in its cultivation is by human hands. Harvesting is done by hand sickles. The grain is headed by pulling thru iron combs, a work usually delegated to the women and children. The photograph accompanying this article shows the rude construction of these combs.

Japan has a density of population of 2,349 per square mile. The average farm is but 2½ acres. Taxes are very heavy, amounting to \$1,100 annually per quarter section on rice lands. Land rents are also very high, and the average renter, after paying the many charges assessed against him, makes not more than \$20 or \$30 for his year's work.

That the Japanese farmers are able to live under these onerous conditions and support large families speaks well for their ability as farmers. They are keenly aware of the value of fertilizers, and every waste product that has fertilizing value is utilized. Crops are rotated to build up the fertility of the soil. Canal mud is spread over the land at the rate of as high as 70 tons per acre. Vegetation and tree branches growing on hill-sides and uncultivated areas are spread over the fields. Manure of all kinds is carefully conserved. The Japanese farmer is deserving of commendation and can teach the American farmer much in regard to the careful husbanding of natural resources. It is doubtful if agricultural machinery will ever come into extensive use in Japan because of the smallness of the farms and the abundance of cheap labor.

Exports of Corn Oil and Glucose.

Corn oil exports during the twelve months ending July 1 amounted to 19,739,622 lbs., compared with 23,866,146 lbs. for the same period ending July 1, 1912. Exports for June were 1,357,363 lbs., compared with 308,223 in June of last year.

Glucose amounting to 158,365,604 lbs. was exported in the twelve months prior to July 1, compared with 126,395,045 lbs. exported in the corresponding period of 1911-1912. These figures are taken from report of O. P. Austin, chief of the Bureau of Statistics.



Copyright by Underwood and Underwood, New York.
Japanese Farmer Women Heading Barley by Pulling It thru Iron Combs near Iwakuni.

SOME ESSENTIALS TO CORRECT SCALES.

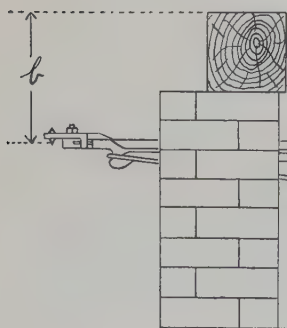
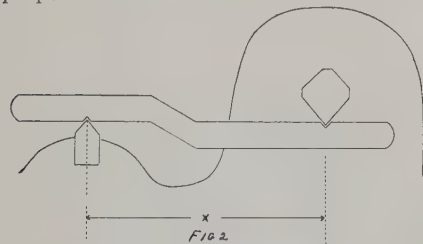
BY CLAY JOHNSON.

The foundation of a scale is most important. To neglect it is paying the way for inaccuracy. We find more scales in error through faulty construction than any other cause. If your scale is of the type that rests on the foundation in the bottom of the pit, see that it rests on something solid; do not trust to loose stone or a few concrete blocks, but build bench walls or piers of solid concrete, when possible, or lay brick in good rich cement mortar. Put the base of the foundation a good depth below the ground line. If boards are used on top of the foundation, lay them in the concrete; level both ways while it is green. These boards can be easily replaced when they begin to decay. Boards laid on loose stone and the like look good enough while new, but they soon settle out of level, then your scales are in worse shape than ever, from the fact that to correct this it is necessary to tear out the whole scale and build a new foundation. A scale of any type must have a rigid bearing; without this, results are uncertain.

I recently tested a wagon scale that had a foundation composed of a few concrete blocks and loose boards laid on them, the blocks had settled, the boards had decayed and the scale was weighing about 200 pounds light on an ordinary load. It might have been the other way. The scale had been used six years, but was alright, the variation being caused by the poor foundation.

If YOUR SCALE is of the type that is suspended from the corners, it also is entitled to a good foundation, and if you use brick, don't lay them in lime mortar, where it is exposed to continued dampness. It is little better than loose dirt.

After your scale is on a solid foundation, see that it is level and plumb. If your scale is of the truss lever type, do not level the casting with a spirit level. Fig. 1 shows the proper method of leveling the lever. The distance (at *b*) from the top of frame level down to the lower point of bearing in No. 2 (or the right hand) lever, should be the same distance as at *a* from the top of frame level down to the foot pivot, thus leveling the bearings in the lever rather than the lever proper.



The left hand lever No. 1 works about two inches below No. 2. This lever is sealed this way, and will weigh correctly, while it is out of level. After these levers are leveled, see that the truss rods are not tight enough to crown, or loose enough to sag the lever. Sight along the side of the lever to see when it is level.

IN PUTTING THE CHECKS RODS ON your scale just allow enough play so that the platform will not bind. It will not be long in getting loose. Some foster the idea that a scale platform must have lots of play in order to weigh correctly. A platform too loose is detrimental to the scale; it allows more wear on the knife edges, but it shud not bind.

THE BEAM ON A SCALE is a kind of a barometer, but does not always indicate trouble. When the beam gets stiff or refuses to swing it is evidence that there is something wrong. On the other hand there can be something wrong and the beam will work nicely. I recently found a wagon scale that the foundation had given way at one corner, and the corner in question was weighing 168 pounds out on 1,000 pounds, but the beam did not indicate any trouble; in fact, the owner said several parties had remarked about his scale working so easily. Don't depend too much on your beam pointing out your trouble. On all Standard scales properly installed and in good repair, the beam will work slow and steady from top to bottom.

On the cheap scales you will find the beams work springy; they will not swing from top to bottom as they should, this is caused by certain rules and workmanship being omitted to lessen the cost, which in turn makes the scale cheap and

a cheap scale. In order for a scale beam to work as it should, it must be scientifically built; time cost is what makes the standard scales come high. Few scale owners appreciate the time it takes to complete a high grade scale.

EVERY YEAR A LARGE NUMBER of scales are ruined by the local blacksmith trying to repair them. Your local man may be a first-class mechanic, but the chances are that he will render your scale unfit for accurate weighing. There are a dozen reasons why he should not undertake it; one especially which you will find illustrated herewith. Pivots in a scale lever must be a fixed distance apart. This distance is found with a gauge as shown in Fig. 2, the knife edges must fit exactly in the notches in the gauge. If the width of the gauge is not known, it is not possible to get it off the dull pivots. Different scales have different gauges, and it is not probable that your blacksmith is familiar with these, so it's safer for him not to repair your scale. This also applies to the traveling scaleman whom you do not know. Don't risk your scale with him; the chances are you will not get value received. First learn whether or not he is competent before he does your work. Bear in mind that he cannot ascertain whether a scale is weighing correctly by tearing it out, scraping the rust off and putting it together again, then telling you yours is the best scale he has seen for a month. Probably he will tack up a card saying "tested and found correct." Such methods are deceptive. It's not treating your patrons fair. Don't allow your scales to be tested with less than 1,000 pounds. The more weights you use the better.

TO ILLUSTRATE what a big difference a little change will make in the weighing

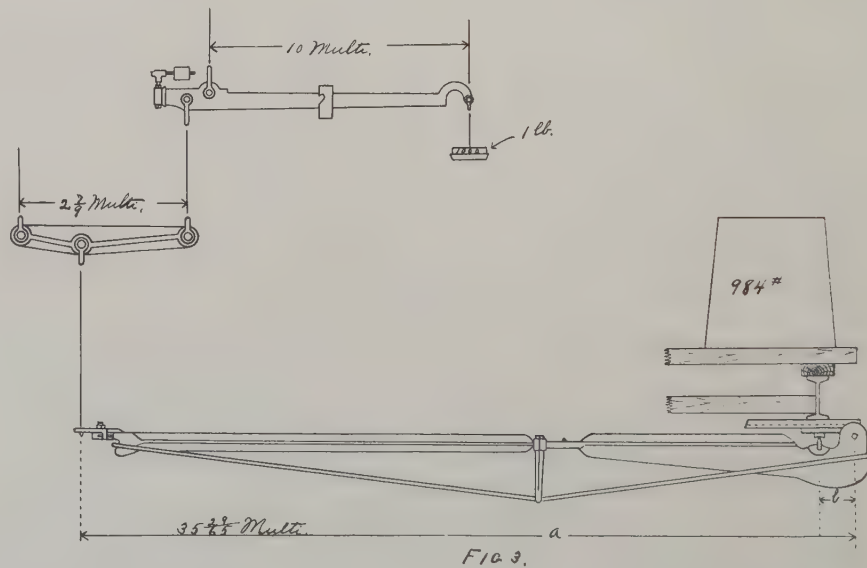


Fig 1

on your scale, you will note in Fig. 2, if the distance between the knife edges at x (the gauge) was changed $1/16$ inch wider, it would only take 984 pounds on your scale platform to show 1,000 pounds on the beam. In other words, it would be weighing 16 pounds heavy on the 1,000 pounds.

The long lever shown in Fig. 3 has 36 multiplications when in perfect seal. Now in widening the gauge $1/16$ inch you change the multiplication from 36 to 35 29/65 regular. The whole scale as shown in cut has 1,000 multiplications, divided as follows: 36 in the long lever, 27/9 in the shelf lever and 10 in the beam; these multiplied together makes the even 1,000. One pound on the point of beam will balance 1,000 pounds on the platform, when the scale is in perfect seal. But as shown in Fig. 3, the long lever only has 35 29/65 multi., the shelf lever 27/9, and the beam 10. These multiplied together will make 984 8/13 (accurately speaking); then one pound on end of beam will only lift 984 pounds on scale platform, where it should lift 1,000 if the gauge in the lever had not been changed. By changing the gauge wider you have taken the advantage from the power on end of beam and given it to the weight on the scale. To narrow the gauge would cause it to weigh light. If your scale was equipped with a compound beam, the results would be the same as shown on the single beam in Fig. 3. I have found the gauge in levers to be more than $1/8$ inch out. You can readily see what the variation amounted to.

A multiplication in a scale is a division in the lever equal to the width of the gauge. If a lever was 10 ft. long and the gauge was 5 in. there would be 24 multiplications in the lever, the gauge is the distance between the pivots as shown in Fig. 2 (at W). To seal a scale is nothing more than to adjust it to weigh correctly.

If YOUR LOCAL MAN should accidentally get the gauges correct, there are other possibilities for errors. The hardening of the pivots is really the most important part of the work, in order to get service and accuracy out of the scale this must be scientifically done, and it takes experience to learn it correctly. It is quite different from other tempering work. There are other rules which must be closely followed, about which your local man has no chance to know. The scale trade is no exception to any other trade, it can be learned by any one of ordinary intelligence, but to acquire a knowledge of the business it is necessary to work where they make scales.

If THE SCALE OWNERS would take more interest in the weighing both in and out, and trust less to employees, weights would be far more satisfactory. I have an elevator owner in mind who personally weighs every load in, and every car cut, this party also will not allow grain to be put in a car before he inspects the cooping of same. He tells me he has not had a claim in ten years, excepting through wrecks.

THE NEW CROP OF OATS is now moving. There are a goodly number of small capacity automatic scales in use throughout the country. It is next to impossible to weigh light oats through them accurately. It is time to pray for the weighmen in the terminal markets.

Prices are so demoralized that it is unsafe to try to do a legitimate grain business.—S. J. Clevenger.

REPORT OF ASS'N SCALE Inspector.

The semi-annual report of the Scale Inspector of the Kansas Grain Dealers Ass'n presents an interesting array of facts worthy of the careful consideration of every grain elevator operator. From it we take the following:

No average error for scales is given, as none could be arrived at which would be of value in representing true average conditions, as majority of applications for inspection come from owners who suspect the accuracy of their scales, or at times when scales are entirely out of commission.

Also, we have made more than half of inspections in new territory which up to now has not been favored with efficient inspection service.

Records show that in almost each case where inspection is made for our contract signers of last year, that scales were very close to being accurate.

But where scales are neglected, they were in condition where much more time and attention is necessary to be spent than if regular inspection were given each year.

INSPECTION AND CONSTRUCTION.

We are endeavoring to divide our year into two parts, namely, Inspection and Construction, the first half of the year before the crop moves, getting over the territory as quickly as possible, placing all the scales in certified condition, correcting those temporarily which are out of condition and throwing the Construction or heavy repair part into the second half of the year, when sufficient time can be given to this part of it.

This Department has reported on 454 scales between Jan. 1st and Aug. 1st, 1913, this number being made up as follows:

262 WAGON SCALES.

- 30 Dump Wagon Platform, 8'x14'.
- 6 Dump Wagon Platform, 8'x22'.
- 48 Plain Steel Frame, 8'x14'.
- 138 Plain Wood Frame, 8'x14'.
- 40 Plain Wood Frame, 8'x22'.

95 HOPPER SCALES.

- 30,000-72,000 lbs. capacity, 61 above work floor direct to car.
- 6,000-28,000 lbs. capacity, 31 on work floor over elevator to car.
- 16,000-20,000 lbs. capacity, 3 below work floor over elevator to car.

56 AUTOMATIC SCALES.

- 34 Even Arms.
- 22 Multiplying.
- All above work floor direct to car.

15 TRACK SCALES.

- 5 Dead Rail.
- 10 —Plain.
- 2-150 ton, 50' length.
- 2-80 ton, 42' length.
- 1-30 ton, 34' length.
- 1-10 ton, 15' length.
- 9-100 ton, 42-40 length.

26 PORTABLE PLATFORM AND SMALL PACKAGE SCALES.

Of all scales tested only 9 were found out of seal. Five of these had been placed out of seal by incompetent scale men and the remaining four by owners as a result of endeavoring to correct error by changing seal of irons. In every case the result was incorrect. In all the remaining inaccurate scales the irons were worn out or error was due to some conditions outside the lever system. This is significant in demonstrating that errors are due to other causes than sins of commission of the owners.

Of inaccurate wagon scales 89.5% were wood framed and of these 68.4% were in

error on account of some defect in wood construction. The 10.5% which constitute the steel framed were in error due to poor framing or careless factory work.

The 36 dump scales were in each case in need of attention and were all of wood frame or factory type. No case was found where dump pattern was weighing light but on the contrary all were weighing heavy by appreciable amounts in favor of the seller.

Hopper type from 30,000-72,000 lbs. capacity show the greatest number in error, 18 or 29.5%, principal defects being weak frames and unstable foundations. Scales located on work floor were more subject to error through collection of dirt under platform and insufficient strength of levers, this type being of very shallow construction. All three located below work floor were correct.

Of the 56 Automatic scales, 39 were out of balance by the weight box or showed factory defects or 69% were incorrect. In three cases scales were being run over their indicated capacity.

Of the track scales two were in error or 13%, one being worn out and other of weak platform construction.

It may be well to add that in the case of wagon scales a steel frame does not insure durability or accuracy as some of the worst so-called scales made are framed of steel, neither does a wood frame construction necessarily mean poor weights, but the safe conclusion to be drawn from the wagon scale report is that a steel construction standard scale is far superior to the same scale with wood construction. Referring to the report on dump pattern it is seen that these were in poor condition and that owing to their construction these scales demanding a special rigid construction to give lasting good results.

THE SENATE on Aug. 15 placed wheat on the free list, striking out the 10c per bushel duty prescribed by the House of Representatives. The Senate's vote approved the change made in the Underwood bill by the finance com'te.

"ENCOURAGING AND ABETTING a Bull Movement."

Farseeing financiers are predicting that the greater the amount of Government money deposited in country banks, the longer will the crops be held by the farmers. The *Wall Street Journal* says:

"Without being suspected of heresy, it may be submitted that the greatest speculator in the United States is the farmer. He is financing a crop which may never come up at all on borrowed money. It is necessary and right that he should do this, but the fact should give pause to people who denounce speculation. But when the farmer has harvested his crop, whether it be cotton or corn, and holds that crop for an advance in the price, borrowing money to do so, he becomes not the involuntary speculator which he must necessarily be, but an operator for the rise in cotton or corn.

"At this time of the year the farmer is lying awake nights contemplating the maturity of his notes at the bank and the uncertainties of his crop. The business of the country is adjusted each autumn by the passing of agricultural produce into the channels of trade. The farmer liquidates at that time in the only way he can, which is by realizing on his crops against his note at the bank.

"But if the banks who are financing him are put in possession of what look like limitless funds to the agricultural mind, what will happen? Every Farmer's Alliance in the country will demand that notes shall be renewed so that crops can be held for the rice which is always promised and seldom matures. The condition produced will be one of plain inflation; and so far from relieving the situation, Mr. McAdoo's well-meant effort will seriously aggravate it."

Grain Carriers

The Milwaukee Chamber of Commerce will protest to the Interstate Commerce Commission against the proposed increase in freight rates.

Upon the completion of the Hudson Bay Ry., a dozen grain-carrying steamers will be put into operation between Port Nelson and England.

The Pawhuska & Northeastern Ry. Co. has been organized to build an 85-mile railway connecting Pawhuska, Okla., Skee-dee, Okla., and Caney, Kan.

The Oklahoma, New Mexico & Pacific Ry., running west out of Ardmore, Okla., has completed the grading of 25 miles and is rushing the laying of rails.

The Santa Fe has completed its extension from Lubbock to Texico, N. M., a distance of 89 miles. The new line will greatly facilitate the handling of this year's crops.

Construction work on the San Antonio, Uvalde & Gulf R. R. is progressing rapidly and it is expected that the line between San Antonio and Corpus Christi will be completed about December 15.

The Soo Canal handled 53,250,000 bus. of wheat during the year ending July 1, 1913, compared with 47,500,000 bus. in the year ending July 1, 1912. Other grain shipments totaled 33,000,000 bus. in 1913, compared with 18,500,000 bus. in 1912.

The Great Northern branch line from Bertholdt, N. D., has been completed to the international boundary line and the Grand Trunk Ry.'s branch is within six miles of the line. A town will be established on the boundary line where the two roads meet, and will be known as New Gate.

The water rate on wheat from Duluth to Buffalo dropped to 1½¢ per bu. on Aug. 16. Not much grain moved at this rate, as the demand for grain in the East is very light; and vessel-owners are confident that the rate will rise very shortly as soon as the new crops begin to move.

Wells, Fargo & Co. has announced that they will appeal the decision of the California Railway Commission, reducing all express rates within the state, to the Supreme Court of California, and then to the United States Supreme Court, if necessary; and in the event that both courts uphold the commission's decision, the company will withdraw entirely from California.

The C., B. & Q. R. R. has been given permission by the Nebraska Railway Commission to reduce its rate on wheat from Archer to Omaha, Neb., from 13.6¢ to 13.17¢ and its rate on corn from 11.9¢ to 11.5¢ in order to meet the rates established by the Commission from Chapman, Neb., to Omaha via the Union Pacific in connection with the complaint of the Hord Grain Co.

The proposed cancellation of proportional rates on grain and grain products from St. Louis, East St. Louis, Madison, and other Illinois points, to New York and other Eastern destinations via the Illinois Central and other lines was postponed Aug. 18 by the Interstate Commerce Commission until Dec. 18, pending investigation. The effect of this cancellation would be to increase the rate on grain products to 29¢, as compared with the present rates of 19.7¢ on flour and 19¢ on other grain products.

The Great Northern R. R. has reduced its freight rates on grain, grain products, and flaxseed between its stations in Montana and Idaho and points in Illinois, Indiana, Iowa, Minnesota, and North and South Dakota, and has also established lower rates from Montana to the Pacific Coast, to become effective Aug. 10. The reductions amount to from 1¢ to 5¢ per 100 lbs. In establishing these reduced rates, the Great Northern hopes to encourage the early shipment of the crops and to reduce the car stringency later in the year.

The first step in changing the methods of handling grain on the Pacific Coast from sack to bulk handling has been taken by the Globe Grain & Milling Co., Los Angeles, Cal. This company is altering its steamer Portland so as to carry bulk grain. The vessel, which has a capacity of 3,300 tons, requires five days to load and unload with sacked grain, whereas with bulk grain, loading will take but six hours and unloading, ten hours. The company owns large warehouses at Portland, San Pedro and San Francisco.

Minimum weights on barley and oats for export via Atlantic seaports have been changed, effective Sept. 15. All grain except corn, barley and oats will take a minimum weight of 90% of marked capacity of car. Corn, barley and oats (except in sacks) will take a minimum weight of 90% of marked capacity of car for cars of 60,000 lbs. capacity or less, and 56,000 lbs. as the minimum weight on all larger cars. Sacked oats take a minimum weight of 85% of marked capacity on cars of 60,000 lbs. capacity or less, and 56,000 lbs. for larger cars.

Railway traffic managers are predicting that the country will experience this fall the worst car shortage since 1907 unless the shippers co-operate with the carriers to avoid a congestion of traffic. The railway commissions of several states are sending out notices to shippers and offering suggestions how to minimize the shortage. Darius Miller, president of the C. B. & Q., states: "If all cars in the country were promptly handled by railroads, shippers, and all connected with traffic, there would be no shortage. The trouble is not mechanical but human, that is, lack of co-operation."

The discrimination in the ocean grain insurance rate via the Montreal-Liverpool route in favor of the New York-Liverpool route is the subject of a statement issued by the Trade and Commerce Department of Ottawa, Can. The Department showed that in 1900 the Montreal-Liverpool rate was 56¢ per \$100 worth of cargo, and the New York-Liverpool rate was 20¢. In 1912 the rate was cut to 25½¢ from Montreal and to 15¢ from New York, a difference of 10½¢ in favor of New York. This reduced the difference in the insurance rates between the two ports from 36¢ to 10½¢.

Many claims for reparation which require the approval of the Interstate Commerce Commission are outlawed because the carriers do not file them with the Commission within the statutory period of two years. W. M. Hopkins, manager of the Transportation Department of the Chicago Board of Trade, has issued a notice warning shippers to keep a close check on their reparation claims and require the railroads to give them the Interstate Commerce Commission docket numbers as evidence that the claims have been duly filed. If the rail-

roads fail to do this, the shipper should file the claims with the Commission himself within the two-year limit so to prevent their being outlawed.

Grain screenings have been eliminated from the grain products list and added to the list of commodities taking grain rates by the railroads operating east of Chicago, thereby reducing the rate 7/10¢ per 100 lbs., effective Sept. 15. However, this change increases the minimum weight on screenings from 35,000 lbs. to the minimum established for the particular grain from which the screenings are derived. W. M. Hopkins, manager of the Transportation Department of the Chicago Board of Trade, has proposed to the carriers that they establish a minimum weight of 40,000 lbs. on all screenings except grain dust, for which he suggests a minimum of 35,000 lbs.

CORN IMPORTS POSSIBLE.

In view of the reduction of the corn crop in 1913 from the 3,100,000,000 bus. of last year to an expected yield of 2,300,000,000 the trade is considering where to obtain the 800,000,000 bus. to make up the shortage.

The carryover from 1912 was very large, high prices make for economy in consumption and all bins will be scraped clean, hence it is likely that the actual deficiency will be only a fraction of the 800,000,000 shown by the crop figures.

Imports can relieve the situation next spring to a small extent, as a number of countries other than the United States are growers of corn and exporters of the commodity. Argentina exports about 100,000,000 bus. annually, Roumania 30,000,000 bus., Russia, 25,000,000, the total exports of all countries for the five years 1906-1910 as reported by the U. S. Dept. of Agriculture averaging 171,000,000 bus. per annum, excluding the United States.

Even under the stimulus of very high prices only a part of the 171,000,000 bus. exported from other countries could be diverted to the United States. Prices are likely to be so high that foreign countries will part with all the corn they can spare, irrespective of the retention or removal of the present import duty on corn. If the duty is retained United States markets will be on an artificially higher price level. Removing the duty with the purpose of increasing the imports of corn will have but little effect as the foreign countries have comparatively little corn to spare, all other countries on the globe together producing less than half as much as the United States.

A BURO OF LABOR SAFETY will be added to the Department of Labor if the bill introduced by James R. Mann in the House of Representatives July 23 becomes a law. The work of the bureau would consist in promoting the adoption of devices for preventing injuries to employees.

ILLINOIS has started active work on improving its roads under the Tice bill. Forty men from the Joliet penitentiary were started on road work Aug. 25 and will be so employed for ninety days. Under the law the state will distribute annually among the counties \$400,000 from the automobile tax fund and \$32,820 from the general taxation fund. Each county receiving money is required to duplicate the amount of its appropriation. This gives a total fund of \$865,640 to be spent annually on road work. In a few years Illinois should take a leading position as a good roads state.

EFFECT OF THE PANAMA Canal on the Movement of Grain.

BY CHAS. F. MACDONALD.

The Panama Canal will be opened for traffic on Jan. 1, 1915. Among grain men there has as yet been little discussion as to its effect on the movement of grain from the northwest to foreign markets and to the Eastern coast of the United States.

The conditions that obtain on the Pacific Coast are distinct from those east of the Rockies. The grain merchant there has but little interest in the markets at Chicago, Minneapolis, or Duluth, but looks to the quotations at Liverpool and other foreign markets to determine what his grain will bring.

The Western states produce a surplus of grain, but that surplus is steadily growing smaller. In 1902 it was at its maximum with 55,000,000 bus., in 1910 the total was down to less than 20,000,000 bus. From 1881 to 1885 the United Kingdom obtained 21% of its wheat imports and 10% of its flour imports from the Pacific coast. In 1906 this had fallen to 6% for wheat and less than 1% for flour. The growing demand for the product of the Pacific coast states for home consumption indicates that if there is to be any extension of the export trade in wheat from the ports there, with the opening of the Panama canal, it must be drawn from the territory east of the Rockies.

The method of handling grain on the Pacific coast is entirely different from that in the territory east of the Rockies. Instead of being handled in bulk from country elevators it goes into warehouses in the sacks in which it comes from the farms. At the terminal points it goes into large warehouses from which it is loaded to the ocean vessels. In the terminal warehouses the grain is frequently emptied from the sacks, cleaned and then re-sacked. From the warehouses it is loaded into vessels on trucks operated by hand labor and in some cases by electric conveyors. The opinion of men engaged in the handling of grain in bulk is that the Pacific coast method is more expensive and much slower, and that they must change their method of handling to compete with the Atlantic outlets. Several attempts have been made in the past to bring about a change but they have never been successful.

Sack handling came about because of the conditions under which grain is transported on the Pacific ocean. Sailing vessels have in the past carried the larger part of it altho in recent years steam is encroaching and now carries more. The average sailing vessel requires from 90 to 120 days to make the trip around the Horn to England, crossing the equator twice and in the interval going thru a temperature almost frigid. Grain in bulk would be much more liable to heat than grain in sacks. Then, too, the grain goes in full cargoes, and in bulk the danger from the shifting of the cargo with the listing of the vessel is a serious matter.

Marine insurance underwriters have always insisted on sack handling for Pacific coast grain traffic. It may be that the Panama canal will bring such a change in the character of the vessel and the general hazard of the voyage that these conditions can be changed, but if they cannot they must inevitably constitute a handicap upon the Pacific coast traffic in grain as compared with that of the Atlantic.

If it is possible to bring the handling conditions on the Pacific coast to a point where there is no advantage with the territory east of the Rockies, commercial and transportation conditions will then determine the direction of movement of the grain. If the cost is equal from both points then the grain should divide at the point of equal rates. On the Northern Pacific railway the rates as between Duluth and Seattle break even at Gordon, Mont., with a rate of 35c per 100 lbs. That point is 1,027 miles from Duluth and 878 from Seattle. On the Great Northern the break is at about Shelby with a rate of 32c, distance to Duluth 1,038 miles and to Seattle 768 miles. It will be noted that the advantage for length of haul for the rate is with Duluth and it is fair to assume that the expensive haul over the mountains will always keep the advantage in that respect with the haul to the East. Another factor that will prejudice the railroad in favor of the haul to the East will be the greater probability of backloading from the lake terminal. One way traffic is always expensive.

The Pacific outlet possesses one advantage over the Great Lakes that must be conceded it and it is an important one. Navigation there is open for the entire year while on the Great Lakes there is a closed period of about five months. That this will have some influence on the movement of grain is certain and especially will this be true of the grain of Canada, the larger part of which goes abroad. The Canadian railways are looking for a considerable movement of grain from Alberta and western Saskatchewan through the Pacific ports.

Ocean freights fluctuate more widely than those of the grain markets, in times of drouth. A Duluth exporter can today land wheat from Duluth into European ports at from 10c to 11c a bu. Less than a year ago it cost him 25c a bu. The ocean rate from Atlantic ports to England now ranges between 6c and 8c a bu. The transportation cost from Duluth to the seaboard via lake and rail is about 8c a bu., but with the improvement of the Erie Canal (which will be completed at about the time of opening of the Panama Canal) this cost should be brought down to 5c, as the canal shut out the rail rate in two. Duluth will then be able to put grain into foreign markets at a rate of about 12c or 13c.

The rates from the Pacific Coast can only be guessed at. Today (June 27) the rate is about 25c a bu., and New York freight brokers state that the Panama Canal will probably cut this rate about 20%, which would make it 20c a bu. That rate is not low enough to cause the grain man on the Great Lakes any apprehension as to possible loss of export business thru the use of the canal route.

As to the domestic business, there is little possibility that the Pacific ports can ever land grain from the spring wheat states into the eastern consuming centers of the United States at a lower cost than Duluth except under very unusual conditions. In the fall of 1911, when prices of barley in the central and eastern portion of the country ruled very high due to a crop shortage, two or three millions of bus. of California barley moved from San Francisco to New York via the Isthmus of Tehuantepec under a rate of 25c per 100 lbs. Later this rate was raised to 30c. With the Panama Canal available, this rate would probably have been considerably lower, but there is little chance that the rate could be reduced so low as to enable the western shipper to compete with shippers on the Great Lakes for the domestic grain business.

THE TARIFF will be passed unchanged by the Senate if the Democratic senators keep the pledges they made July 7 at a party caucus on the bill. The caucus indicated that 47 Democrats will vote for the tariff, altho there is considerable doubt whether the two senators from Louisiana can be held in line. Should both vote against the tariff, Vice-President Marshall will have to cast a ballot to break the tie.

E. B. COOK'S NEW ELEVATOR.

The elevator shown in the accompanying illustration is the new plant erected by E. B. Cook of Wapello, Ia., to replace his plant, which burned June 3.

The new house is 36x48 ft. and 79 ft. from basement to cupola. It is built on a rock foundation with a full 10-ft. basement. The house is of cribbed construction covered with 6-in. lap siding. Metal roofing is employed to eliminate the spark hazard.

The elevator contains fourteen bins having a total capacity of 35,000 bus. Two dumps are provided, an ear corn dump sink of 250 bus. capacity and a small grain dump sink of 300 bus. capacity; both dumps are equipped with oil controllers. The grain is lifted to the cupola by two elevator legs, one having 7x12 in. cups and the other 7x13 in. cups. The mechanical equipment includes a No. 4 Cornwall Cleaner in the cupola and a 1,000-bu. Constant Sheller in the basement. The power plant consists of a 40-h. p. steam engine and a 50-h. p. boiler.

The plant is located on private ground between the C. R. I. & P. Ry. and a branch of the M. & St. L. Ry. Four loading spouts are provided so that cars can be loaded on both sides of the house at the same time.

Quick action was obtained in building the plant. The old house burned on June 3. Construction work commenced June 16th, and five weeks later the new plant was in operation. The Newell Construction Co. designed the plant and furnished a foreman, but as Mr. Cook is also in the lumber business, he furnished all the material required.

Imports and Exports of Beans.

Beans amounting to 1,048,297 bus. were imported in the twelve months prior to July 1, compared with 1,004,930 bus. imported in the corresponding period of 1911-1912. Exports of beans and dried peas during the twelve months prior to July 1 included 400,868 bus. of domestic origin and 425,789 bus. of foreign origin, compared with 341,268 bus. of domestic origin and 195,022 bus. of foreign origin exported in the corresponding period of 1911-1912, as reported by O. F. Austin, chief of the Bureau of Statistics.



E. B. Cook's New Elevator at Wapello, Ia.

Grain Trade News

ARKANSAS.

Conway, Ark.—J. S. Carter has bot the grain business of C. W. Jones.

Mulberry, Ark.—J. F. Turner, dealer in grain and produce, aged 60 yrs., died recently. He is survived by a widow and several children.

Little Rock, Ark.—Our recent fire was a very small retail store, one of a number which we operate here. The loss was less than \$500, covered by insurance. We do not expect to rebuild at that place.—Hayes Grain & Commission Co.

CALIFORNIA.

Escondido, Cal.—W. T. Brown and R. A. Agnew have taken over the grain and hay business of I. I. Irwin. His warehouse has been purchased by Fred D. Hall, cashier of the First National Bank.

CANADA.

Forgan, Sask.—The Canadian Elvtr. Co. will build.

Aneroid, Sask.—West & McHugh, of Vanguard, will build.

Pimate, Sask.—The Western Elvtr. Co. is putting up a house.

Limerick, Sask.—The Golden West Grain Co. is building a house.

Ermine, Sask.—The Western Elvtr. Co. has just finished an elvtr.

Wymark, Sask.—Jas. Richardson & Sons are having a house built.

Laberge, Sask.—R. B. McClean has built an elvtr. here and at Wiseton.

Rosetown, Sask.—The Saskatchewan Elvtr. Co. has opened the house recently built.

Estevan, Sask.—John Mathiesen has sold his elvtr. to the Ogilvie Flour Mills Co., Ltd.

Chaplin, Sask.—The Imperial Elvtr. Co. and the Beaver Elvtr. Co. have built at this place.

Assiniboin, Sask.—M. B. Lytle, of this place, is building at Melaval, La Fleshe and Woodrow.

Conquest, Sask.—It is reported that R. B. McClean has sold his house here to a nearby farmer.

Broomhead, Sask.—The Imperial Elvtr. Co. has completed houses at this point and at Tribune.

Moose Jaw, Sask.—The International Linseed Oil Co. will establish a \$750,000 plant near this city.

Mawer, Sask.—Olson & Co. will build an elvtr. at this point as soon as the G. T. P. Ry. gets the steel laid.

Medicine Hat, Alta.—The Ogilvie Flour Mills Co. will erect fifteen new elvtrs. in Alberta, with a capacity of 35,000 bus. each.

Calgary, Alta.—A terminal elvtr. of 3,500,000 bus. capacity will be erected, at a cost of \$1,500,000, by the federal government.

Holland, Man.—The elvtr. of the Farmers Elvtr. Co. burned Aug. 8. Loss \$10,000. Only two cars of wheat were stored in the elvtr. when it burned.

Winnipeg, Man.—The Pioneer Grain Co., Ltd., incorporated; capital stock, \$500,000; directors, A. C. Ruttan, Henry Gauer, F. G. Davies, H. Little and D. J. McGillivray.

Lethbridge, Alta.—The United Grain Producers, Ltd., incorporated; capital stock, \$100,000; H. E. Meibach, pres.; L. M. Jelliff, vice-pres.; D. E. Harris, sec'y and treas. K. C. Allen of the McLaughlin Grain Co., Winnipeg, is managing direc-

Saskatoon, Sask.—The Quaker Oats Co. has added to its storage capacity by the erection of a new 325,000-bu. elvtr.

Montreal, Que.—The harbor commissioners will build a 3,000,000-bu. export elvtr. at the east end of the harbor to unload vessels on one side and load ocean steamers on the other side.

Moose Jaw, Sask.—A grain exchange is to be organized here which will have a membership of 200, the membership price being \$250. J. Edward Caldwell is provisional president and J. Snodgrass and A. L. Irish are interested in the organization.

Regina, Sask.—The Saskatchewan Co-operative Elvtr. Co., Ltd., states that it will have 210 elvtrs. in readiness to handle this year's crop. Fifty elvtrs., giving an increased capacity of over 5,000,000 bus., have been constructed this year by the company.

Point Edward, Ont.—C. E. Dewey, freight traffic mgr. for the Grand Trunk R. R., says that prospects are very bright for the immediate construction of a larger and modern elvtr. to replace the one that burned on July 7. The new elvtr. will be of concrete and steel and absolutely fire-proof.

Charlottetown, P. E. I.—A rolled-oats mill, with a daily capacity of 300 barrels, together with a concrete grain elevator, storage capacity about 250,000 bu. and concrete dock 150 ft. long and about 85 ft. wide, is being promoted. The entire plant, exclusive of site, is estimated to cost \$150,000. While this project is being energetically pressed by its promoters, its success is not assured, as it is dependent on very favorable municipal concessions.—Wesley Frost, U. S. consul, Charlottetown.

The Dominion Grain Commissioners have issued rules and regulations that all elvtrs. for drying and treating grain must be authorized by the board, and the owners must take out a license and furnish a bond. All grain shipped out from a "hospital" elvtr. must be inspected and graded, and the grade given will not be subject to change. It is provided that no grain that has been subjected to scouring or treatment by the use of lime or sulphur will be graded higher than No. 3. A penalty of \$50 will be charged against any persons returning grain to elvtrs. without the consent of the chief grain inspector. No grain samples will be allowed to be taken from any eastern-bound car until the car has been billed for shipment by the railway company. Hospital elvtrs. are forbidden from taking in No. 1 hard, No. 1 northern and No. 2 northern, and all such elvtrs. must have official weighing in and out.

COLORADO.

Denver, Colo.—The W. C. Moore Milling & Elvtr. Co. has been incorporated; capital stock, \$50,000.

Haxtum, Col.—The new 30,000-bu. elvtr. constructed for the Farmers Grain & Trading Assn. is cribbed with 2x6's and 2x4's and has an entire concrete foundation. It has concrete hoppers and self-cleaning bin and dump bottoms and is equipped with 30,000-lb. Fairbanks Hopper Scales with type-registering beams, 6-ton Fairbanks Wagon Scale with type-registering beam, 15-h.p. Fairbanks-Morse Kerosene Engine equipped with starter and magneto, Barnard & Leas Cleaner, Fairbanks-Morse Feed Grinder, and Success Safety Manlift. The driveway is 14 ft. wide by 36 ft. long. Dump capacity, 1100 bus.; elevating capacity, 1700 bus. per hour. Our company is incorporated to do business in grain, live stock and coal.—Farmers Grain & Trading Assn.

IDAHO.

Rupert, Ida.—Wilson & Gillett are now operating a grain warehouse on the O. S. L. Ry.

Roberts, Ida.—The Anglo-American Mill Co. is installing a 25-bbl. Midget Marvel Flour Mill here.—Deahl Bros. Elvtr. Co.

Paul sta., Rupert p. o., Ida.—Paul Store Co. and E. B. Watson & Co., are now operating grain warehouses on the O. S. L. Ry.

Paul sta., Rupert p. o., Ida.—The Heyburn Grain Co. is building a warehouse, 100x36 ft., with concrete floor.—Edward Adams, mgr.

Orofino, Ida.—The Orofino Rochdale Co. will this year operate its warehouse, which has been leased to a local company for the past two years.

Gooding, Ida.—The warehouse and storage building of the Farmers Co-operative Union burned on July 13. The fire is believed to have been due to incendiary origin.

Rathdrum, Ida.—The new officers of our firm are G. A. Laird, pres., Henry Meyer, vice-pres., M. B. Layton, sec'y, treas. and mgr.—M. B. Layton, Rathdrum Grain & Supply Co.

American Falls, Ida.—The new officers of our firm are M. J. Rice, pres., and Wm. J. Hansen, sec'y. We have completed the enlarging of our mill.—H. C. Ehrlich, mgr. American Falls Mlg. Co.

Jerome, Ida.—William Wagner has succeeded C. C. Whipple, resigned, as mgr. for the Jerome Mlg. & Elvtr. Co. The Vogler Seed & Produce Co. writes that it has recently purchased this company.

Cottonwood, Ida.—We have just completed a 50,000-bu. elvtr. Hitherto this has been a sack country, but sacks are high this year, 10½ cents for oats and 11 cents for wheat sacks. We are trying to do our part to put this in shape for an elvtr. country and stop that drain on the farmer's pocketbook for sacks. This little town and the country tributary will pay out this year \$30,000 for sacks.—Geo. S. Downer, mgr. Farmers Union Warehouse Co.

ILLINOIS.

Galva, Ill.—The Galva Grain Elvtr. Co. recently improved its plant.

Deers, Ill.—The Dryer & Burt elvtr. was damaged by lightning recently.

Arrowsmith, Ill.—J. C. Bane & Son are making repairs in their elvtr.

Ancona, Ill.—C. E. Clayton has engaged in the grain business at this point.

Holcomb, Ill.—Holcomb-Dutton Lbr. Co. has succeeded Geo. Stanbury & Son.

La Hogue, Ill.—L. J. Seiling of Martinton will be mgr. for the Farmers Elvtr. Co.

Panola, Ill.—Archie Kingdon, agt. El Paso Elvtr. Co., was married on Aug. 15.

Cortland, Ill.—John Redmond of DeKalb has leased the elvtr. of Larson & Gahagan.

Mason City, Ill.—J. A. McCreery, sec'y of the Farmers Grain & Coal Co. for the past fourteen years, has resigned.

Compton, Ill.—The elvtr. of Warner & Guffin was damaged by lightning, Aug. 8. Loss, \$100.

Gibson City, Ill.—The Drummer Grain Co. has built a new driveway with concrete walls.

Crescent City, Ill.—We are putting in a new Fairbanks Wagon Scale.—Harlan & Sterrenberg.

Lincoln, Ill.—Harry Knapp will engage in the grain commission business in the Obcamp Bldg.

Kappa, Ill.—We are putting in a National Automatic Scale in our elvtr. here.—F. S. Larison.

Granite City, Ill.—The Corn. Products Co. has opened its plant and is making good bids for No. 3 corn to arrive.

Wellington, Ill.—Samuel Lockhardt has succeeded Pate & Lockhardt, Mr. Lockhardt having bot Mr. Pate's interest.

Girard, Ill.—P. S. Carter, of P. S. Carter & Co., was killed by a Chicago & Alton freight engine on Aug. 21.

Leonard, Ill.—We expect to paint all our outbuildings and make general repairs.—Henry Meyer, mgr. Farmers Elvtr. Co.

LaHogue, Ill.—We are putting in a 15-h. p. electric motor and also a man lift.—Wilson E. Bush, mgr. Egley Bros. & Bush.

Decatur, Ill.—The Shellabarger Elvtr. Co. has amended its charter to decrease the capital stock from \$250,000 to \$105,000.

Flanagan, Ill.—We have sold out to the Farmers Grain & Coal Co. of Flanagan. We still own one elvtr. here.—Locker Bros.

Litchfield, Ill.—J. K. Seagrave, for years with C. B. Munday & Co., is now first ass't to the Auditor of State at Springfield.

Tampico, Ill.—The Farmers Elvtr. Co. has leased the elvtr. of the Neola Elvtr. Co. and will operate two houses at this station.

El Paso, Ill.—We have just added a full stock of lumber and building material to our business.—W. G. Nelson, mgr. El Paso Elvtr. Co.

Haydens Crossing, Manhattan p. o., Ill.—The Farmers Elvtr. Co. of Manhattan has erected an elvtr. on the Wabash Railroad.—R. E. K.

Goodwine, Ill.—During the past eight weeks our elvtr. underwent a general overhauling. It is now in good shape.—Goodwine Grain Co.

Fairbury, Ill.—We are putting in a 2250-bu. capacity Richardson Scale, a conveyor and a gravity loading spout.—T. D. Karnes, mgr. Farmers Grain Co.

Paxton, Ill.—Randolph Cruzen, at one time a member of the Paxton Grain Co., which operated here several years ago, died Aug. 1, aged 77 years.

Loraine, Ill.—John Gunn was recently injured quite painfully in his elvtr., being struck in the face by the trip, which some boys had started and were unable to stop.

Mira sta., Urbana p. o., Ill.—Five hundred bus. of oats were turned into the bin containing 1,000 bu. of wheat in the elvtr. of N. M. Pell on Aug. 8. He believes boys are guilty of the mischief.

Sheldon, Ill.—J. O. Worsham, formerly manager of the Farmers Elvtr. Co. at Donovan, has succeeded W. W. Wilson, who resigned as manager of the Farmers Elvtr. Co. here.—L. T. Hutchins.

Decatur, Ill.—Charles Peel, employed by Suffern, Hunt & Co., while applying some resin to a belt in the mill, slipped and fell, sustaining a fracture of the skull which caused his death on Aug. 5.

Tampico, Ill.—We leased the elvtr. of the Neola Elvtr. Co. and have the two elvtrs., not three as reported. Our combined capacity is 80,000 bus.—R. F. Nelson, mgr. Tampico Farmers Elvtr. Co.

Assumption, Ill.—We have recently purchased the hay and seed business owned by E. S. Phillips, which is the old stand of the late J. B. Michael.—L. A. Tripp, sec'y-treas. Assumption Grain Co.

The Illinois & Michigan Canal Commissioners are making a desperate effort to make a show of activity in maintaining the canal to head off the contemplated confiscation of the waterway by the War Department.

Crescent City, Ill.—We are building a 25,000-bu. crib constructed addition to our elvtr., also putting in a 20-h. p. motor and an ear corn dump and building new coal sheds. H. L. Hodgman is doing the work.—Risser & Dale.

Springfield, Ill.—Announcement was made Aug. 19 that the following had passed the examination for the position of helper in the state grain inspection department: Henry M. Musgrave, Barnhill; David L. Morgan, East St. Louis; Edward R. Coleman, George L. Bishop, John H. Everson, James C. McNanic, James T. Beddow, Joseph Biskup, Gustave H. Nelson, William Kuning, John F. Coughlin, E. Charles, R. Holter, Fred Einstman, Jr., Joseph Knudson, Harry G. Wellington,

Ney Severe, Walter Wood, Benjamin W. Riffing, Alan V. Hughes and John M. Gavin, all of Chicago; Christopher Miller, Fisher; Perry F. Voorhees, Wheaton, and William C. Tuttle, Saybrook.

Cairo, Ill.—Lee G. Metcalf, pres., S. W. Strong sec'y and H. J. Baldwin, treas. of the Illinois Grain Dealers Ass'n, were entertained by the dealers of Cairo on Aug. 20 by an auto ride. They were also guests at a dinner and smoker.

Wellington, Ill.—Alex Pate, an old and respected banker and grain buyer, has been forced into bankruptcy because of having been surety for some of his relatives. Mr. Pate is 69 yrs. of age and his many friends sympathize with him in his trouble.

Fairbury, Ill.—N. B. Claudon, an old and respected grain man at this place, died recently. His son, C. J. Claudon, is now the sole owner and manager of the business, altho the business will be conducted under the old firm name of N. B. Claudon & Son.—S.

Cabery, Ill.—John E. Tjardes has taken possession of the south elvtr., which he purchased some time ago, the lease of the Kempton Farmers Elvtr. Co. having expired. They will not build a new elvtr. but will discontinue buying wheat at this station for the present.

Martinton, Ill.—A. J. Nourie, L. H. Baron, John Euchner and John H. Schroeder have bot the controlling interest in the Farmers Elvtr. Co. with a view to reorganizing the company on some co-operative basis. The business had been losing money and dissatisfied stockholders from time to time had sold their shares to R. F. Cummings until he had the controlling interest.

Piper City, Ill.—We are replacing our steam power by installing a 10 and a 15-h. p. electric motor, respectively, in each of our elvtrs. We will put one in the cupola and one in the basement to operate the machinery located there. This does away with drive belts and ropes. We have also bot a 2250-bu. Richardson Automatic Scale and are building new coal sheds.—Montellus Grain Co.

CHICAGO NOTES.

CHICAGO CALLERS: B. K. Smith of Smith Bros. Grain Co., Ft. Worth, Tex.

Argile & Kirby recently suffered \$40,000 loss by fire in their grain elvtr. and warehouse.

Walter Sullivan has replaced J. J. Schreiner as corn trader for King, Farnum & Co.

John W. Moore, formerly with the Armour Grain Co., has gone with the Bartlett-Frazier Co. as corn trader.

The Midland Linseed Products Co. suffered \$150,000 loss by fire Aug. 18 in its linseed oil mill. The fire started with an explosion in the basement.

Walter Kettenberg & Co. have taken the offices of the bankrupt firm of Smart, Porter & Co. Mr. Kettenberg was the firm's trader in the wheat pit.

Charging that their appointment was illegal, the State Civil Service Commission has brot suit against 16 employees of the State Grain Inspection Department to oust them from office.

Application for membership in the Board of trade has been made by Harry L. Emmert, Philip Richard Duggan and Dana Philip Long. The memberships of the E. F. Wright estate, Benjamin A. Squire and Francis G. Porter have been posted for transfer. E. G. Dunn, C. H. Sayle, C. W. Cooper and W. A. Worth have been admitted to membership. Memberships are selling at \$2,150 net to buyer.

D. Rothschild & Co. incorporated to do a general receiving and shipping business in barley and malt. Capital stock, \$10,000; David Rothschild pres., Albert Rothschild, sec'y-treas. The firm will have offices in the Postal Telegraf bldg. David Rothschild is one of the oldest and best known men in the barley business, having been at the head of the D. Rothschild

Grain Co., at Davenport, Ia., founded 40 years ago. Albert Rothschild will attend to the buying and selling.

We have arranged with the Chicago, Indianapolis & Louisville Ry. (Monon Route) for the placing of a representative on the Exchange floor to receipt for reconsigning orders and surrendered Bs/L, such representative to be on duty during the hour 1 to 2 p. m., on each business day except Saturday, and noon to 1 p. m. on Saturdays. This arrangement as to hours is somewhat different from that made with the other roads, whose representatives should be on duty a half-hour earlier, that is, during the hours 12:30 to 2 p. m. on each business day except Saturday, and during the hours 11:30 to 1 p. m. on Saturdays.—W. M. Hopkins, Manager Transportation Department, Board of Trade.

INDIANA.

Bluffton, Ind.—The Studebaker Grain & Seed Co. will install a feed mill.

Frankton, Ind.—The Farmers Elvtr. Co. has been incorporated, capital stock \$10,000.

Centerton, Ind.—The elvtr. of J. Rothrock was damaged by fire on Aug. 12, to the extent of \$18,000.

Wolcottville, Ind.—The Wolcottville Elvtr. Co. has made an assignment; liabilities, \$4,145.56; assets, \$1,846.52.

Remington, Ind.—We are going to put in a new sheller and do general repair work.—Remington Farmers Elvtr. Co.

Seymour, Ind.—C. H. Anderson recently suffered \$3,000 loss by fire in his elvtr. caused by an overheated journal.

Galveston, Ind.—The Winston Grain Co. will install a 35-h. p. steam engine as soon as the harvest rush of grain is over.

Union City, Ind.—While working for the Pierce Elvtr. Co. recently, Jacob Lambert fell from a 50-ft. scaffold and was seriously injured.

Mt. Ayr, Ind.—I have just finished building a new office 16x32 and have installed a new 20-h. p. kerosene engine in the elvtr.—Edwin Harris.

Haubstadt, Ind.—The elvtr. and mill of the Ziliak & Schaefer Milling Co. burned Aug. 7. The fire was started by lightning. Loss, \$75,000; partly insured.

Kokomo, Ind.—C. M. Barlow will not rebuild the elvtr. recently burned. He will remodel his Panhandle elvtr. and is now figuring on the buying of new equipment.—S.

Reynolds, Ind.—We are installing a 10-h. p. Fairbanks Morse Gasoline engine in our storehouse. After harvest we will build new dumps in our elvtr. and also put in a new sheller.—C. C. Wheeler, mgr. Crabbs Reynolds Taylor Co.

Aboite, Ind.—The Aboite Equity Exchange incorporated to buy and sell grain; capital stock, \$25,000; incorporators, W. E. Clark of Roanoke, Wm. T. Null of Ft. Wayne, Wm. J. Decker and Chas. Adams of Aboite.

Indianapolis, Ind.—The old firm of Irvington Grain & Feed Co. was sold on April 8 last to the Marsh brothers: R. I. Marsh, B. C. Marsh and Geo. E. Marsh. The new firm is still doing business under the old firm's name.—B. C. Marsh.

Freeland Park, Ind.—Wilbert Hawkins has sold his elvtr. to Messrs. Ladd, Harmon and Gordon of Oxford. The firm name is W. J. Ladd & Co. and J. W. Geary, who has been in charge for the past three years, is retained as mgr.

Kokomo, Ind.—W. H. Small of Marion, Ind., is bound over to the grand jury because of a charge of obtaining money under false pretenses. It is claimed that he sold a city lot in Kokomo to two different parties and collected the money from both. Mr. Small has been in the scoop shoveling business in different Indiana towns.

GRAIN DEALERS TO PICNIC AT LAKE MAXINKUCKEE.

The grain dealers, seed dealers and millers of this state have perfected arrangements for a three days' outing and picnic at Lake Maxinkuckee (P. O. Culver) this state, to be held on Sept. 5, 6 and 7, headquarters Palmer House.

All grain dealers, seed dealers, millers and their families and friends are invited to attend. There will be no formal program nor general business, tho any matters of interest to the trade can be taken up in manner to suit the visitors.

The purpose of this picnic is to develop more general acquaintance and better fraternal and social relationship between the grain dealers, seed dealers and millers of the state, as well as visitors from the terminal and other markets of the country, all of whom are cordially invited to attend and to bring their ladies and other friends.

At the time of this meeting, fishing in Lake Maxinkuckee will be first class. Bathing, boating and other aquatic amusements have made Lake Maxinkuckee famous.

Culver is a very interesting place, not only to the citizens of Indiana but to others, as the great Culver Military School is maintained at that point, and Lake Maxinkuckee is one of the most beautiful and attractive lakes in Northern Indiana.

No formal invitations are issued for this picnic, but this is to be considered a general and broad invitation to everyone that is directly or indirectly interested, not only as grain dealers, seed dealers and millers, but those that are in any way interested in the trade.

Should it be impossible to be in attendance during the three days, everyone will be expected to attend whatever time they can.

Culver is reached by the Vandalia Railroad; 35 miles north of Logansport or 12 miles south of Plymouth, Ind. It is also accessible to those who desire to go by automobile, as splendid roads lead there from every direction. To make hotel reservations in advance, write or wire Manager Palmer House, Culver, Ind.—Chas. B. Riley, Sec'y Indiana Grain Dealers Ass'n.

IOWA.

Spaulding, Ia.—Hugh Stevens is building a grain office.

Packard, Ia.—I am putting in a man lift and a rope drive.—J. E. Miller.

Ladora, Ia.—The Farmers Supply Co. will soon start work on a new elvtr.

Lake City, Ia.—L. J. Mighell has sold his elvtr. here to the Updike Grain Co.

Hazleton, Ia.—The elvtr. of Keifer Bros. was slightly damaged by lightning on Aug. 10.

Rhodes, Ia.—John Shearer has purchased the elvtr. and coal business of Geo. Gilbert.

Des Moines, Ia.—Henry E. Mathews is being sued for divorce. His wife charges cruelty.

Sioux City, Ia.—Lamson Bros. & Co. have moved their offices to the Davidson Building.

Sherman, Ia.—T. A. Tanzy has retired from the grain business and moved to Missouri.

Hawarden, Ia.—L. D. Ray of Stanhope will manage the elvtr. of the Farmers Elvtr. Co.

Sibley, Ia.—H. L. Wheeler has engaged Arthur Eilers as mgr. in his newly acquired elvtr.

Blairsburg, Ia.—John Glaman, of Jewell, has accepted a position as mgr. of the Farmers Elvtr. Co. here.

Rockwell City, Ia.—Lightning slightly damaged the south elvtr. of the Rockwell City Elvtr. Co. on Aug. 12.

Rome, Ia.—A. D. Hayes & Co., of Mt. Pleasant, will build a small elvtr. here.—A. W. Miller, Mt. Pleasant.

Paton, Ia.—Martin J. Conroy has bot the Farmers Elvtr. Co. property from J. B. Will, the assignee, for \$7,300.

Birmingham, Ia.—John Hope has retired. McCoy & Kerr firm name will be S. A. Kerr after Oct. 1.—Hugh E. McCoy.

Hanlontown, Ia.—S. O. Espe of Imogene, Minn., will represent the Independent Grain & Lumber Co. at this station.

Kiene sta., Masonville p. o., Ia.—I succeeded Chas. Heller as mgr. of the elvtr. of the King-Wilder Grain Co. here on Aug. 15.—Delbert Cramer.

Brandon, Ia.—The Farmers Elvtr. Co. will let the contract this week for the erection of an elvtr.—Chas. Spike & Co., Jesup, Ia.

Greene, Ia.—The elvtr. I recently purchased here will be operated under the name of the Greene Grain Co. with myself as mgr.—W. H. Green.

Nora Junction sta., Nora Springs p. o., Ia.—The Nora Springs Farmers Elvtr. & Supply Co. will operate an elvtr. here, as well as at Nora Springs.

Robinson, Ia.—Our new 10,000-bu. elvtr. will be completed in about a week. It will be equipped with up-to-date machinery.—Robinson Lbr. & Grain Co.

Clinton, Ia.—Two steel storage tanks will be erected for the Riverside Mfg. Co. The Jos. F. Wangler Boiler & Sheet Iron Works Co. has the contract.

Orchard, Ia.—The Farmers Supply Co. has purchased the Great Western Elvtr. of H. C. Horgen and will take possession Sept. 1.—C. V. Woodward, sec'y.

Merrill, Ia.—From Jan. 1 to Aug. 1 this company shipped 30,000 bus. wheat, 16,000 bus. oats and 7,300 bus. wheat.—J. H. Luken, mgr. Farmers Elvtr. Co.

Atlantic, Ia.—Reports are circulated that an elvtr. belonging to T. A. Hupp burned here, on Aug. 3. This building was run strictly as a feed store.—G. H. Bunton.

Bennett, Ia.—Farmers Elvtr. Co., incorporated; capital stock, \$30,000; J. H. Strohbeen, pres., Ferdinand Dietz, vice-pres., and J. F. Duvall, sec'y and treas.

Stonega sta., Webster City, Ia.—The Home Elvtr. Co. opened its new elvtr. on Aug. 7. W. F. Maywald is mgr.—L. O. Eaton, Highview sta., Webster City, p. o.

Pomeroy, Ia.—F. O. Hocum and brother recently purchased elvtrs. at Fonda and Varina. He has resigned his position as mgr. of the Farmers Co-Op. Grain Co. here.

Burt, Ia.—O. P. McDonald and Frank Siler of Algona have purchased elvtrs. at Plum Creek sta., Algona p. o., Dolliver, Halfa and Fenton. The headquarters of the company will be here.

LaPorte City, Ia.—The Producers Elvtr. Co. of LaPorte City has completed its elvtr. Officers of this recently organized company are M. C. Garman, pres., S. L. Brallier, vice-pres., Roy E. Ashley, sec'y and treas. Directors are John Krebs, John F. Kruse, M. C. Garman, Ed. Harring, S. L. Brallier, O. A. Clark and N. P. Bedard.

Melvin, Ia.—The Melvin Grain Growers Assn. is in difficulties. The organization has two sets of officials, and much strife has been created. As a way out of the trouble, a receiver has been asked for by one of the factions to wind up the affairs of the company. The request for a receiver has been taken under advisement by District Judge Hutchinson.

Cedar Rapids, Ia.—The annex we are building to our elvtr. will be same construction as the main house, cribbed, covered with galvanized iron, 35,000-bu. capacity, with an automatic weighing and sacking scale, and an incline shoot for loading the sacked grain into cars, so that the only handling necessary will be piling of the sacked grain after the sacks are in the car.—Cedar Rapids Grain Co.

Kelley, Ia.—I am about to leave the grain business and go farming. During the thirteen years I was in the grain business, I read the Grain Dealers Journal and feel that, had I continued in the business, the Journal would also have continued to be a part of my business. It is the most valuable of all grain men's journals. I bot a farm near Lynchburg, Va. I am succeeded in the grain business here by S. E. Squires Grain Co.—J. M. Johnston.

KANSAS.

Valley Falls, Kan.—The Hauck Elvtr. Co. may install a small capacity flour mill.

Liberty, Kan.—The Bowen Milling Co. of Independence is erecting an elvtr. at this point.

Everest, Kan.—I have sold my elvtr. to C. E. Sheldon and am looking for a new location.—Edgar Johnson.

Mt. Hope, Kan.—C. R. Howard of Wichita will take charge of the elvtr. of the Pond Creek Mill & Elvtr. Co.

Topeka, Kan.—M. A. Palmer is now foreman of the elvtr. owned by the Kaw Milling Co., succeeding Milton Slybaugh.

Lawrence, Kan.—The Bowersock Mills & Power Co. has completed a 400,000-bu. concrete elvtr. for additional storage.

Wichita, Kan.—Wallingford Bros. Grain Co. now occupy the finest offices in the Board of Trade Bldg. on the fifth floor.

Englewood, Kan.—Floyd Rifner, who was caught on a belt in the elvtr. of the Farmers Grain & Supply Co., was so badly injured that he died.

Wichita, Kan.—The Pond Creek Mill & Elvtr. Co. has leased the mill of the Howard Mill Co. temporarily and expects to build a plant here later. J. E. Howard will remain in charge.

Wichita, Kan.—The Red Star Mill & Elvtr. Co. has leased the Nevling Elvtr., which was bot in at trustee's sale by J. H. Stewart last September. The elvtr. has a capacity of 150,000 bus.

Pomona, Kan.—We are the successors of G. Swayze in the grain and lumber business. Wm. Bower of this firm was formerly in the grain business at Collyer, Kan.—W. Bower & Son.

Topeka, Kan.—The W. M. Cardwell Grain Co. and J. E. Gall of the J. E. Gall Commission Co. have been expelled from the Kansas Grain Dealers Ass'n for failure to abide by arbitration decisions.

Falun, Kan.—I have bot my father's interest in the grain, coal and hay business. The coming year I will handle wheat and flour for the K. B. R. Milling Co., of Marquette, Kan. I still own the elvtr.—G. A. Forsse.

Wichita, Kan.—The Fort Worth Elvtrs. Co., of Ft. Worth, Tex., incorporated by Jule G. Smith, B. L. Douglas, Ben U. Feunquay, F. T. Douglas and Hal M. Black. The company will operate as a branch of the Fort Worth headquarters, with offices in the Sedgwick Block here.

Lucas, Kan.—I have just completed my new elvtr. with a capacity of 18,000 bus. and all modern equipments that a first class elvtr. should have. It is considered one of the best and finest built houses on the Lincoln branch of the U. P. It has a loading capacity of 25 bu. per minute.—M. P. Thielen.

Topeka, Kan.—Owing to entire crop failure this year in western Kansas and partial failure last year the farmers are not in position to purchase wheat. To help the farmers in Trego, Gove, Logan, Wallace, Thomas, Sheridan, Graham, Ness, Lane and Wichita counties, E. J. Smiley, sec'y of the Kansas Grain Dealers Ass'n, asks the farmers of prosperous central and eastern Kansas to loan seed wheat to their less fortunate neighbors. The county commissioners have assured Mr. Smiley they will look after the distribution of this seed and will arrange to take the farmers' notes at the time the seed is turned over to them. The railroads passing thru these counties, the Mo. Pac., Rock Island, Santa Fe and U. P., have agreed to transport this wheat free of charge. Mr. Smiley has sent to the grain dealers a circular requesting them to explain to their farmer patrons the great need of the western wheat growers and inclosing an appeal for publication in the local newspapers naming the dealer as willing to accept contributions of seed to be forwarded free of charge, the farmers loaning seed to be repaid at threshing time with 8 per cent interest.

Wichita, Kan.—Fourteen firms have agreed to use the service only of the new Board of Trade grain inspection bureau which was inaugurated Aug. 1. Several firms have not yet given up using state inspection. The state department makes an average charge for inspection service of about 75 cents per car, while the Board of Trade bureau is making a flat rate of 50 cents per car. Geo. Koch, chairman of the weights and inspection committee of the Board of Trade, is receiving many letters from country shippers approving the organization of a Wichita Board of Trade inspection department. Geo. B. Ross, the new chief grain inspector, declares that he will compel the Wichita Board of Trade to accept state inspection.

KENTUCKY.

Nicholasville, Ky.—J. B. Sanders has bot a building and will engage in the grain business.

LOUISIANA.

Lake Charles, La.—The Kelly-Weber Co., wholesale grain dealers, has increased its capital stock from \$50,000 to \$150,000 and will double the capacity of the plant.

MARYLAND.

Baltimore, Md.—The application of Samuel C. Wilson for membership in the Chamber of Commerce has been approved.

MICHIGAN.

Caro, Mich.—A farmers elevator company is being promoted.

Fowlerville, Mich.—E. W. Burkhart has remodeled his elevator.

Delwin sta., r. f. d. Rosebush, Mich.—The Delwin Elevator Co. has reopened its house.

Bad Axe, Mich.—Ray Thomas has been elected mgr. of the Farmers Grain & Produce Co. in place of Howard Quail, who resigned.

Tecumseh, Mich.—D. Gratz & Son are erecting an elevator on the D. T. & I. track, 45 ft. high and containing three bins to hold 10,000 bus. A grinding mill will be installed.

Schoolcraft, Mich.—Having dissolved partnership with D. S. Case as the firm of Knappen & Case, I will still continue the business at Schoolcraft and Chamberlains.—H. E. Knappen.

Kalamazoo, Mich.—Reports are being circulated giving the name of this company incorrectly. There is no such company as Kent Grain & Produce Co. The firm name Morris Kent Co. is the original and correct name.—Morris Kent Co.

Detroit, Mich.—Receipts of grain at Detroit during July included 96,000 bus. of wheat, 57,600 of corn, 300,500 of oats, 7,000 of barley and 8,000 of rye; against 23,000 bus. of wheat, 153,900 of corn, 380,000 of oats, no barley and no rye received during July, 1912. Shipments for the month included 91,000 bus. of wheat, 42,200 of corn, no oats, no barley and no rye; against 11,200 bus. of wheat, 83,100 of corn, 88,400 of oats, no barley and 16,200 of rye shipped during July 1912.—M. S. Donovan, sec'y Detroit Board of Trade.

Detroit, Mich.—The Detroit Board of Trade has admitted about 25 of the prominent hay dealers and shippers to membership on the Board, and, in future, all hay transactions will have the protection of the Detroit Board of Trade, and all sales and settlements will be made on official Detroit Board of Trade inspection. All hay arriving in Detroit now via any railroad in car-lot is inspected in the same manner as grain, and certificates issued by the sec'y, as is usual with grain shipments. Herbert D. Foster, who has had a thoro hay experience in Michigan and Ohio, both in selling and buying hay, and, latterly, in the hay business for himself in Detroit, has been appointed an inspector by the Board of Trade, with especial supervision over hay.—M. S. Donovan, Sec'y Detroit Board of Trade.

MINNESOTA.

Dunnell, Minn.—Greig & Zeeman have painted their elevator.

Blue Earth, Minn.—The Farmers Elevator Co. will build an elevator.

Burchard, Minn.—The Western Elevator Co. has not opened its house.

Currie, Minn.—A farmers elevator company is being promoted by Mr. McFee.

Lakefield, Minn.—The Bennett Grain Co. has painted and repaired its elevator.

Springfield, Minn.—The North Star Elevator Co. has engaged L. P. Larsen as buyer.

Carlisle, Minn.—The Farmers Co-operative Grain & Elevator Co. is making repairs.

Russell, Minn.—The Farmers Independent Elevator Co. has built an addition to its elevator.

Vlasaty sta., Dodge Center p. o., Minn.—B. F. Muldown contemplates the erection of an elevator.

Lamberton, Minn.—Albert Spaulding has purchased the flouring mill of the Lamberton Milling Co.

Montevideo, Minn.—The Montevideo Co-operative Elevator & Trading Co. has installed a Fosston New Process Cleaner.

Hewitt, Minn.—I have succeeded A. L. McKellep as agt. here for the National Elevator Co. of Minneapolis.—L. M. Bjorness.

Warner, Minn.—Charles Creed is acting as sec'y of the Farmers Elevator Co. in place of E. C. Stearns, who died recently.

De Graff, Minn.—I am now mgr. of the De Graff Farmers Elevator Co.—A. M. Gagen, former agt. Peoples Elevator Co., Orr, N. D.

Gillfillan sta., Morgan p. o., Minn.—Gus. Meine of Minneapolis is building elevators at this place and at Wayburne sta., Evan p. o.

Altura, Minn.—The Altura Elevator Co. incorporated, capital stock, \$10,000; incorporators, J. A. Speltz, John Frisch and others.

Traverse, Minn.—The Traverse Farmers Elevator Co. incorporated by W. P. Smith, Ed. Johnson, Joe S. Nelson, F. O. Quist and C. H. Hanson.

Oslo, Minn.—Howard & Bushaw, who at one time leased the elevator of the Red River Transportation Co., are no longer in business.—Citizens Bank.

Tyler, Minn.—I am the successor of L. Reinholdt as mgr. of the Tyler Grain Co. He is now with the Farmers Elevator Co. of Tyler.—Lewis M. Carr.

St. Paul, Minn.—An order directing the Chicago Great Western Railroad Co. to put into effect for four months beginning Oct. 1 the legal Minnesota rates, has been signed by the federal court.

Alberta, Minn.—The Duluth Elevator Co. has been overhauling its elevator and has built a new driveway, engine room and office. I expect to be mgr. and take charge Aug. 1.—B. L. Halderman.

Felton, Minn.—The Canton Grain Co. has bot the elevator of the Grain Producers Elevator Co. here. The elevator of the Minneapolis & Northern Elevator Co. has been torn down.—Edw. Carlson, agt. Canton Grain Co.

Westport, Minn.—J. W. Brenner has succeeded R. A. Von Hagen as agt. for the Great Western Grain Co. The first car of new oats was shipped out of this place Aug. 15 by the Monarch Elevator Co.—O. E. Krueger, agt. M. E. Co.

Luverne, Minn.—Dunn Bros. will retire from the wholesale grain business, F. A. Dunn having been engaged by the Hubbard & Palmer Co. to take charge of its elevator in place of Agt. Sam Forght, who resigned on account of ill health.

Armstrong, Minn.—T. E. Flakerud's elevator, caught fire from a passing locomotive engine Aug. 7 and burned, together with coal sheds and outbuildings, as well as 125 bus. of oats, 105 tons of coal and vehicles owned by William A. Carlson, lessee. Loss on elevator, \$4,000; partly insured.

Dalton, Minn.—A. O. Floren has filed a petition of bankruptcy and has transferred title in his elevator to Randall, Gee & Mitchell, a Minneapolis commission firm. A new cleaner has been installed in the elevator of the Dalton Grain & Lumber Co.

Raymond, Minn.—The Farmers Elevator has been overhauled and given a new coat of paint. E. E. Manska, formerly mgr. of the Farmers Elevator Co. at Waverly, S. D., is our present mgr., succeeding P. Sorenson, resigned.—Farmers Elevator Co.

Sacred Heart, Minn.—The Miller Elevator Co. has taken down and rebuilt its office. The Eliason Grain Co. has put in a man-lift. A. H. Wiegand has retired as agt. for the Empire Elevator Co. and Martin Wadstad is his successor.—Sacred Heart Produce Co.

Bombay sta., Kenyon p. o., Minn.—E. G. Rosvold, formerly of Wanamingo, has succeeded S. Lechett as mgr. for the Bombay Farmers Merc. & Elevator Co. Chas. O. Roe of Wanamingo has charge of the selling of grain for this company and also for the Farmers Elevator Co. at Wanamingo.

Kasota, Minn.—The large cleaning house belonging to the Kasota Elevator Co. was destroyed by a tornado on June 26. The wreckage is to be torn down and that company will not operate a plant at this point hereafter. They have about closed up their affairs at Kasota and will buy only on terminal markets, as their office at this point has been discontinued.—J. J. LaDue, formerly mgr. Kasota Elevator Co., now mgr. for Anchor Grain Co. at Kasota.

MINNEAPOLIS LETTER.

James Marshall, the pioneer grain dealer, is very low and his death is expected soon.

J. M. Wallace has succeeded F. E. Dunn as pit trader for the Van Dusen-Harrington Co.

Ross Matthewson has succeeded John E. Getchell as salesman for the Marfield Grain Co.

Beers Clark, mgr. of the St. Anthony & Dakota Elevator Co., is seriously ill at his home of kidney disease.

Kinsey Maxfield has been reappointed sampler of grain, seeds and mill feeds for the Chamber of Commerce.

The assessment of individual memberships in the Chamber of Commerce as personal property was protested against by representatives of the Chamber at a recent meeting of the board of equalization.

The Quinn-Shepherdson Co. on July 8 received the first consignment of 1913 blue stem wheat to arrive here, the Faust Elevator Co. of Wessington Springs, S. D., being the consignor. The car graded No. 1 northern and was sold to the National Milling Co. at 89½ cents.

Last year's standard for grades will hold for the ensuing year, according to decision of the State Board of Grain Appeals, except that notations will be made where wheat is mixed with coarser grains. The Board has refused to put dockage on barley and oats this year.

Jesse B. Becher of the Becher-LaBree Co. and E. J. Hendry, employed by the Hallet & Carey Co., have been elected to membership in the Chamber of Commerce. Corporate memberships have been granted to The Tenney Co., Dalton & Gould, C. A. Malmquist & Co., Becher-LaBree Co., Haven Grain Co., and the Central Grain & Commission Co.

The Supreme Court of Minnesota recently gave a decision in favor of the Pillsbury Flour Mills Co., in the suit brought by Dennis B. Casey to recover damages for injuries sustained while engaged in hoisting an electric motor from the ground into the company's grain elevator. After the machine had been raised 60 ft. the men at the windlass let go of the handles, letting the motor fall, injuring Casey. The court held that as the men at the windlass were fellow servants of Casey the company was not liable.

Chamber of Commerce memberships have been transferred as follows: C. F. Poehler to A. H. Poehler, B. L. Simmons to C. C. Austin and F. J. Tyner to R. A. Dinsmore. The following requests for transfer have been made: J. R. Norton to C. T. Stevenson, C. M. Owen to W. L. Beaton, G. R. Martin to W. F. Hyde, J. R. Stewart to W. H. Graves, J. T. McGlynn to J. R. Marfield, R. W. Scroggins to Harry W. Miller, Harry W. Miller to B. L. Simmons, A. H. Poehler to Fred J. Midwood, H. S. Newell to W. A. Johnston, W. L. Beaton to William Hunter, F. O. Yeates to Charles B. Rogers, H. J. Dffenbaugh to James J. Kennedy, John Washburn to C. G. Williams, S. A. Dalton to J. A. Gould.

The issuance of the following traveling representative's licenses has been authorized by the Chamber of Commerce: To C. A. Kerkeby, representing C. C. Wyman & Co.; to Stark S. Johnson, representing H. Poehler Co.; to Guy Blanchard, representing the Keystone Grain Co.; to C. P. Wangness, representing H. L. Hankinson Co.; to O. A. Kneeland, representing E. L. Welch & Co.; to J. J. Hight, representing the Anchor Grain Co.; to Christ Wold, representing Benson-Newhouse-Stabeck Co.; to L. P. Gannon, representing Quinn-Shepherdson Co.; to J. L. Killion, representing Winter-Truesdell-Ames Co.; to G. O. Farrell, representing the Van Dusen-Harrington Co.; to M. Blewett and H. B. Bornemann, representing the Van Dusen-Harrington Co., and to L. McKendrick, representing the International Grain Co.

MISSOURI.

Webb City, Mo.—Theodore Bates will be mgr. for the Boyd & Gunning Milling Co. Green Ridge, Mo.—Rayburn & Withers are the successors of Rayburn & Crismer.

Hoberg, Mo.—We are building a 10,000-bu. elvtr.—Cowgill & Hill Milling Co., Carthage.

Kansas City, Mo.—T. J. Brosnahan has purchased the Board of Trade membership of E. S. Jones.

Parkville, Mo.—The Parkville Milling Co. has recently built a new concrete boiler room and installed a new boiler.

Kansas City, Mo.—I have become financially interested with the Kemper Grain Co. and occupy a place in their office.—Guy Briggs, formerly of Cook, Neb.

Albany, Mo.—We have installed a dump elvtr. for handling wheat and corn shipments. This station has no grain elvtr.—Elder Grain & Coal Co.

Kansas City, Mo.—The Kansas-Missouri Elvtr., a bonded elvtr. of 1,000,000 bus. capacity operated by the Pacific Elvtr. Co., has been declared regular.

Edgerton, Mo.—The Edgerton Milling Co. has just completed its new 30,000-bu. elvtr. It is finely equipped with up-to-date elvtr. machinery. C. B. Turney is mgr.

Napoleon, Mo.—We are building a grain elvtr. of 15,000 bus. capacity at a cost of \$6,000. The foundation is laid and it will be completed about Oct. 1.—Napoleon Elvtr. Co., A. F. Wegener, mgr.

St. Louis, Mo.—The Niehoff-Schulze Grain Co., incorporated; capital stock, \$150,000. Incorporators: B. A. Niehoff, L. A. Niehoff, J. A. Niehoff, C. E. Fuchs, E. W. Schulze and E. H. Strecker.

St. Louis, Mo.—Shot accidentally in the right temple, John R. Lucas, of the old firm of J. R. Lucas & Co., and long a member of the Merchants Exchange, was found dead when a local Frisco train pulled into Valley Park, 18 miles west of this city, on the afternoon of Aug. 22.

St. Louis, Mo.—The 125,000-bu. Exchange Elvtr., formerly operated by Powell & O'Rourke Grain Co., as a regular elvtr. under the rules of the St. Louis Merchants Exchange, is now in the possession of C. H. Albers Commission Co., and will be operated as a private elvtr. The former firm requested that the elvtr. be made private before it was transferred to the C. H. Albers Commission Co.

Kansas City, Mo.—The Kimball-Sawyer Milling Co. has engaged S. M. Lewis, formerly in the feed department of the Piereson-Lathrop Grain Co., to assist G. I. Kimball on the retirement of H. A. Sawyer, who has sold his interest in the company, which does a milling and a grain receiving business.

St. Louis, Mo.—New members recently admitted to membership in the Merchants Exchange are: Frank K. Houston; Henry M. Wise, of Jones-Wise Com. Co.; F. P. Farrell; Robt. H. McCracken, of Allneeda Mills Co.; W. O. Sholes, of Langenberg Bros. & Co.; Dempster W. Godlove; James Norris, of Norris & Co.; Edwin O. Moffatt, of The Moffatt Com. Co. Memberships of the following have been transferred: Henry Schmitt, G. W. Galbreath, Frank J. Butler, E. C. Hogan, S. G. McCracken, Louis J. Jones, Leonard J. Maune, and Jas. La Tourette.

MONTANA.

Ryegate, Mont.—I am agt. here for the Montana Elvtr. Co.—Irvin Blocker.

Saco, Mont.—The Imperial Elvtr. Co. is selecting a site on which to build an elvtr.

Great Falls, Mont.—The Farmers Elvtr. Co. incorporated with \$100,000 capital stock.

Buffalo, Mont.—The Farmers Elvtr. Co. is having an elvtr. built by Napper & Persson.

Shelby, Mont.—An addition will be erected to the elvtr. of the St. Anthony & Dakota Elvtr. Co.

Laurel, Mont.—The Yellowstone Producers Ass'n will build an elvtr. in connection with a mill.

Sidney, Mont.—The Farmers Elvtr. Co. has let the contract to Honstain Bros. for a 50,000-bu. elvtr.

Isamay, Mont.—The Empire Elvtr. Co. will build an elvtr.—C. O. Wright, mgr. Farmers Elvtr. Co.

Wilsall, Mont.—I am now agt. for the Occident Elvtr. Co. here.—J. E. Olsen, formerly of Devon, Mont.

Glendive, Mont.—The Montana Eastern Farmers Elvtr. Co. has equipped its elvtr. with a Fosston New Process Cleaner.

Lewiston, Mont.—The Montana Elvtr. Co. and Farmers Elvtr. Co. will build new elvtrs. here, each of 30,000-bu. capacity.

Outlook, Mont.—The Farmers Elvtr. Co., recently organized, will erect a 30,000-bu. elvtr. One of its officers is M. A. Morgan.

Homestead, Mont.—The elvtr. of the Victoria Elvtr. Co. burned recently with 1,200 bus. of grain. Material is on the way for rebuilding.

McCabe Bros. are reported to contemplate building a line of six elvtrs. along the Plentywood branch of the Great Northern R. R. in Montana.

Inverness, Mont.—McCabe Bros. are erecting a 30,000-bu. elvtr. at this station, C. J. Martel to be agt.—Adolph E. Anderson, agt. St. Anthony & Dakota Elvtr. Co.

Huntley, Mont.—I have bot D. L. Lytle's elvtr., which was operated last year by the Minnesota Grain Co. and will operate it under the name Huntley Elvtr.—Geo. W. Haskell, per A. W. Harris, agt.

The Imperial Elvtr. Co., of Minneapolis, Minn., now operates at Poplar, Harlem, Wolf Point, Nashua and Malta, besides its other elvtrs. at Antelope, Medicine Lake, Culbertson and Glasgow, Mont.

Missoula, Mont.—The Farmers Elvtr. Co. will erect four houses this fall of 30,000 bus. capacity which will be equipped complete with the best we can get. We expect to build at least four elvtrs. more next year in Montana. Our company is composed of farmers and the business will be confined to coal and grain, working on a co-operative basis to shareholders. A. C. Zimmerman, formerly mgr. of the Farmers Elvtr. Co. at Embden, N. D., will be mgr.—Frank A. Oulton pres. The Farmers Elvtr. Co.

Fairview, Mont.—Hardy Bros., the Fairview Milling Co., and the Farmers Elvtr. Co. are engaged in the grain business here. Mr. Richardson is not in the grain business. He was formerly a track buyer.

Savage, Mont.—The Savage Elvtr. Co. purchased the plant of the Valley Merc. Lbr. Co. Jens J. Miller is pres., W. F. Winklemann, vice-pres. and sec'y, F. W. Barker, second vice-pres., and A. H. Young, treas. and mgr.—A. H. Young.

Chinook, Mont.—We are incorporated under the name of The Milk River Elvtr. Co. with one elvtr. of 30,000 bus. capacity at Chinook. It is equipped with electric motor, man lift and automatic scale.—O. Harlen, mgr.

Chief Grain Inspector J. E. Templeton is preparing a form of storage ticket that complies in every respect with the requirements of the Montana law. Members of the grain trade or any one interested can secure a copy by writing for it.

NEBRASKA.

Bartley, Neb.—E. E. Smith's elvtr. burned Aug. 7.

Carter, Neb.—The elvtr. of the C. Koehler Co. burned Aug. 7.

Crofton, Neb.—Ruden & Philson have bot the elvtr. of the Saunders-Westrand Co.

Wynot, Neb.—The Saunders-Westrand Co. has sold its elvtr. to H. E. Scott of Lincoln.

Wann, Neb.—The Farmers Elvtr. Co. is reported to have sold its elvtr. to S. S. Saunders.

Bloomfield, Neb.—The Samson-Swanson Co. of Oakland has bot the elvtr. of H. F. Cunningham.

Ellis, Neb.—The Farmers Grain Co. has installed a four-ton wagon scale set in reinforced concrete.

Wymore, Neb.—The Farmers Grain, Coal and Lumber Co. will soon have its new elvtr. completed.

Union, Neb.—McCarthy & Sturm have partly re-sided and painted their elvtr.—William Mueller & Son.

Crete, Neb.—A. D. Speeding has succeeded J. G. Hutchinson as mgr. of the Crete Grain & Live Stock Ass'n.

Smartville sta., St. Mary p. o., Neb.—R. C. Miller has succeeded W. H. Bicklmeier as mgr. for the Farmers Elvtr. Co.

Elyria, Neb.—The Farmers Grain & Coal Co. has been organized. Joseph K. Gray is pres., E. E. Dowhower sec. and M. G. Kusek, mgr.

Omaha, Neb.—The annual convention of the Nebraska Farmers Co-operative Grain & Live Stock State Ass'n will be held in this city Dec. 17-19.

Sioux Sta., Neb., Sioux City, Iowa, p. o.—This is an excellent place to erect an elvtr. in a corn growing section with two railroads.—Chas. J. Ray.

Tarnov, Neb.—Leo Hennesay, has taken charge of the elvtr. of the Omaha Elvtr. Co., succeeding T. S. Hoare, resigned.—Louis Maier, mgr.—T. B. Hord Grain Co.

Hallam, Neb.—I am now sole owner of the grain business heretofore conducted as Wm. Burke & Co. From this date, business will be done under the name of Wm. Burke.—Wm. Burke.

Norfolk, Neb.—We did not lose our elvtr. by fire as reported, but did lose a coal shed containing about 500 tons of coal, loss covered by insurance.—G. B. Salter, pres. Salter Coal & Grain Co.

Bushnell, Neb.—The Bushnell Grain Co. has let the contract to W. H. Cramer for a 30,000-bu. cribbed, ironclad elvtr., with all concrete hopper bottom bins, rope drive, Hall Distributor, steel spouting, Richardson Automatic Scale of 1,000 bus. per hour capacity, manlift, 12-h.p. Fairbanks Engine in concrete engine house, Barnard & Leas cleaning machinery, 6-ton Farbanks Wagon Scale, to cost \$8,000 and be ready Oct. 1.

NEW ENGLAND.

Randolph, Mass.—An elvtr. is being erected by Frank Dianto.

Kennebunk, Me.—B. Frank Emery is erecting a new grain elvtr. capable of holding five carloads of grain.

Belmont, N. H.—Fire destroyed the grain elvtr. of John R. Dearborn on Aug. 13. The loss on elvtr. and contents is estimated at from \$18,000 to \$25,000, covered by about \$4,000 insurance.

West Acton, Mass.—We have bot land on a spur track to erect a storehouse to replace the one that burned, which was on railroad land. We have an elvtr. in Central Square.—C. H. Mead & Co.

Malden, Mass.—W. H. Cunningham retired from the grain business on Aug. 1. W. E. Cunningham will have a large interest in the new firm of Cunningham Grain Co., successor to W. H. Cunningham & Son.

Gardner, Mass.—Howe Bros., grain dealers, have dissolved partnership. Marshall M. Howe will continue the business, having bot the interest of Harry B. Howe, who has been a member of the firm for the past eight years.

NEW JERSEY.

Caldwell, N. J.—The Harrison Co. has engaged in the grain, hay and feed business.

Jersey City, N. J.—The Lehigh Valley Railroad Co. has completed its 450,000-bu. reinforced concrete elvtr. The house has 53 bins and a handling capacity of 11 car per hour.

NEW MEXICO

Anthony, N. M.—R. E. Bowden is no longer mgr. for this Ass'n and has not been connected directly or otherwise with this office for over a year.—O. A. Thomas, mgr. South New Mexico Farmers Assn.

NEW YORK.

Buffalo, N. Y.—Charles Kennedy has been elected a director of the Bank of Buffalo.

New York, N. Y.—The Atlantic Grain Co. has increased its capital stock from \$20,000 to \$30,000.

Buffalo, N. Y.—The Eastern Grain Co. has moved from the Chamber of Commerce to the Marine Bank Bldg.

New York, N. Y.—Robert E. Annin, for many years a member of the grain export trade, has taken charge of the grain export department of Dick Brothers & Co.

Buffalo, N. Y.—An aftermath of the Husted Milg. & Elvtr. Co. explosion which occurred on June 24 is a \$50,000 suit for damages brot by John Luty and Basiyi Toroscy, administrators for Wasyl Wilrowy, who was killed in the explosion, leaving a widow and child. As 33 persons were killed and many others injured, it is expected that many similar suits will follow. After examining 110 witnesses and all the survivors the court which held the inquest exonerated the company, its officers and employes from culpable or gross negligence, holding that the plant was in good working order and that all ordinary precautions for the protection of the men had been taken.

NORTH DAKOTA.

Maxbass, N. D.—Howard Elliott is mgr. of the Farmers Elvtr. Co.

Havelock, N. D.—The Havelock Equity Exchange may erect an elvtr.

Dover, N. D.—I am not in the grain business at all.—Geo. W. Emerson.

Price sta., Sanger p. o., N. D.—The Missouri Valley Grain Co. is erecting an elvtr.

Perth, N. D.—R. J. Lowden of Kidder, S. D., will be mgr. for the Farmers Elvtr. Co.

Leith, N. D.—The Leith Farmers Elvtr. Co. has bot the Brady elvtr. Henry Huber is mgr.

Heil, N. D.—Henry Cors is mgr. of the Heil Equity Exchange, taking charge on Aug. 15.

Sheldon, N. D.—Ray French is now mgr. of the Great Western Elvtr. Co. in place of H. F. Fisk.

Raleigh, N. D.—The Raleigh Farmers Elvtr. Co. has bot the elvtr. of the Empire Elvtr. Co.

Mose, N. D.—The Monarch Elvtr. Co. is considering the purchase of the elvtr. of the Mose Elvtr. Co.

Still sta., Wilton p. o., N. D.—The Wilton Elvtr. Co. has bot the elvtr. of the Andrews Grain Co. instead of building.

Berea sta., Valley City p. o., N. D.—The Occident Elvtr. Co., whose elvtr. burned in July, has bot the Powers Elvtr.

Dahlen sta., Fordville p. o., N. D.—The Dahlen Farmers Elvtr. Co. has bot the elvtr. of the Atlantic Elvtr. Co.

Drayton, N. D.—P. C. Dille, formerly of Barry, Minn., is now agt. for the Monarch Elvtr. Co. at this station.

Park River, N. D.—John Kadlec and B. J. McKean of Pisek have bot the elvtr. of the Minneapolis & Northern Grain Co.

Marion, N. D.—I have re-engaged in the grain business at this point and represent the Farmers Elvtr. Co.—R. D. Roberts.

Ambrose, N. D.—Farmers may erect an elvtr. at Fortuna, the new Soo townsite near Norge, and have subscribed \$4,500.

Horace, N. D.—The Farmers Elvtr. Co. incorporated; capital stock, \$10,000; incorporators, G. Nystrom, Philip Tessier and E. O. Holman.

Agate, N. D.—L. L. Krutchten, formerly agt. for the Minnesota Elvtr. Co. at Fullerton, N. D., has taken charge of the Farmers Elvtr. Co.

Bantry, N. D.—A. C. Cook's elvtr., last operated by the Bantry Farmers Elvtr. Co., will be closed this season.—W. B. Crocker, agt. Duluth Elvtr. Co.

Boynton sta., Monango p. o., N. D.—Our elvtr. at this point, which has been closed for three years, will be put in repair and opened.—Caldwell Elvtr. Co.

Brantford, N. D.—I am now buyer and mgr. for the Equity Elvtr. Co. I was formerly with the Great Western Grain Co. at New Rockford, N. D.—C. H. Nobes.

Levant sta., Manvel p. o., N. D.—Walter M. Jones and Wm. O'Keefe have bot the elvtr. of the Winter-Truesdell-Ames Co. The firm name will be Levant Elvtr. Co.

Cavaller, N. D.—French & Thomson will open their house and handle grain this season, operating it for the first time in four years.—D. Boyd, agt. State Elvtr. Co.

Grafton, N. D.—The Farmers Elvtr. Co. incorporated; capital stock, \$35,000; incorporators, Con C. Hankey, Jas. A. McDonald of Grafton, and Octave Collette of Oakwood.

New Leipzig sta., Lawther p. o., N. D.—I am at present representing the Standard Grain Co. of Duluth and H. P. Provolt is now mgr. of the elvtr. of J. S. Birdsall.—G. D. Riesland.

Ambrose, N. D.—The Farmers Co-operative Trading Co. has bot the elvtr. of Dittes & Antonsen, which gives them two elvtrs. here. B. F. Antonsen will go to Saskatoon, Sask.

Paulson sta., Noonan p. o., N. D.—The Farmers Elvtr. Co. incorporated; capital stock, \$10,000; incorporators, Claude H. Miller of Ambrose, R. A. Grams and B. J. Hinds of Bowbells, N. D.

Galchutt, N. D.—The St. Anthony & Dakota Elvtr. Co. still owns and operates an elvtr. at this point. The Farmers Elvtr. Co. has installed an automatic scale in the cupola and a manlift.

Braddock, N. D.—No farmers elvtr. company is operating at this point. The Braddock Elvtr. Co. was incorporated about a year ago and bot the elvtr. of the Minnesota & Western Grain Co. J. A. Miles is the buyer for our company. He ran the same elvtr. four years ago when it was owned by Lehr, Nagel & Co.—H. W. Allen, pres. Braddock Elvtr. Co.

York, N. D.—The Farmers Elvtr. Co. has installed a steel bin in its elvtr. New officers of the company, recently elected, are J. C. Baker, pres., James McCarty, vice-pres. and G. H. Runcorn, sec'y and mgr.

Fortuna, no p. o., N. D.—The Farmers Elvtr. Co. incorporated; capital stock, \$10,000; incorporators, S. A. Garber, Henry Stennes and Elmer Smith, all of Norge, N. D. Fortuna is the new townsite near Norge.

Dickey, N. D.—The same parties who formed the co-partnership of Dickey Grain Co., which was mutually dissolved, have taken over the property and incorporated under the same name.—Dickey Grain Co., by H. D. Bloss, sec'y.

Abercrombie, N. D.—We are going to rebuild our elvtr. which burned on Aug. 6. We figure on building a \$25,000 house, equipped with cleaner, automatic scale, 15-h.p. gas engine. We have not let the contract yet.—Equity Elvtr. Co.

Crary, N. D.—Derailed at this station, a fast passenger train of the Great Northern Railroad on Aug. 19 drove the steel smoking car half its length thru the side of the grain elvtr., moving the house 6 ft. off its foundation and tilting it over at a dangerous angle.

Upham, N. D.—J. Wick, formerly mgr. of the Upham Farmers Elvtr. Co. has accepted a position as deputy sheriff of McHenry Co. The Kellogg Com. Co. has bot the McIntyre & Wier Elvtr. Co., F. Tomo, mgr.—C. L. Broderson, mgr. Upham Farmers Elvtr. Co.

Devils Lake, N. D.—The Lake Grain Co., whose elvtr. burned last spring, will discontinue. The Farmers Mill and Elvtr. Ass'n wrecked its elvtr. located on the main line of the Great Western R. R. and rebuilt it adjoining its mill.—T. J. Gagan, agt. National Elvtr. Co.

Buxton, N. D.—The Acme Elvtr. Co. opened its house Aug. 15 with O. P. Ashiem as agt. S. M. Sorenson has bot the old Minneapolis & Northern Elvtr. and formed a stock company with himself, J. E. Johnson and Iver Solie as directors.—O. Jones, agt. Interstate Grain Co.

Lansford, N. D.—A wheat pest similar to the Hessian fly but burrowing into the foot of the stalk like a grub, is appearing in some sections here. It is entirely new in this part of the state and specimens have been sent to the state entomologist and to the department of agriculture.

We have recently sold elevators in North Dakota at the following points: Colgate, to E. H. Fuller; Hatton, to I. Hegge; Pleasant Lake, to D. H. Ugland of Knox; Walcott, to Northwestern Elvtr. Co., of Minneapolis; Saries, to Farmers Elvtr. Co.; York, to Winter-Truesdell-Ames Co.—F. H. Ellis, gen. supt. Imperial Elvtr. Co., Minneapolis, Minn.

Westby, N. D.—The Farmers Elvtr. Co. of Westby has been organized. The directors of the company are C. D. Larson, William Anholt, Harold Borg, Rasmus Pederson, H. C. Anderson, John Shoal and George Kittelson. No elvtr. will be built this year, but portable loaders will be bot and grain bot at the track and loaded direct into cars.

Bismarck, N. D.—The Great Western Grain Co. of Minneapolis, owning a line of elvtrs. in this state, has been having litigation over the payment of taxes since 1911. It has offered settlement in Burleigh County by paying one half the original tax with penalty and interest. This settlement has already been accepted by Cass county, and it is likely that other counties will settle on the same basis.

Carson, N. D.—We are building a 75-barrel mill and installing the Midget Mills made by the Anglo-American Mill Co. In connection with the milling business we will do a general grain shipping business and our building is complete and up-to-date. For five years I was with the Diamond Grain Co. and the Shannon Mott Co., millers of Des Moines, Ia.—Clarence L. Mott, sec'y and mgr. Carson Milling Co.

Bowbells, N. D.—The new elvtr. being built here is for the Ely-Salyards Co. of Duluth. The work is being done by Honstain Bros. and the John Koehn mentioned in the Aug. 10 number as erecting an elvtr. here is their foreman. They also intend to build an elvtr. at North Gate South, 12½ miles north on Canadian boundary; also one at the siding 7 miles north called Parella. Some of the houses here will be closed on account of the Great Northern R. R. cutting up the territory.—R. A. Grams.

OHIO.

Cleveland, O.—J. F. Kemper has moved to new offices on West Madison street.

Columbus, O.—We have discontinued the grain business.—Cruikshank & Robinson.

Lockland, O.—The J. Mueller Co.'s elvtr. burned recently. Loss, \$20,000; partly insured.

Cleveland, O.—The Lake Shore Elvtr. Co. will enlarge its elvtr. and warehouse storage capacity to accommodate expanding business.

Napoleon, O.—The Napoleon Farmers Grain & Stock Co. has bot the elvtr. of the Hyman Grain Co. for \$14,000, taking possession Aug. 18.

New Carlisle, O.—I have sold my plant to Van M. Morgan, Indianapolis, Ind., for \$30,000; possession given Aug. 21.—S. A. Muff.

Toledo, O.—The wheat business has not been at all good here this season, but we are pretty busy now with oats.—Fred Mayer of J. F. Zahm & Co.

DeGraff, O.—Andrew Mohr, grain dealer, and W. M. Mercer, hay merchant, have combined and will conduct a general grain, coal and hay business in partnership.

Emery Chapel sta., Springfield p. o., O. Burglars broke into the office of the grain elvtr. of G. A. Collier on Aug. 13, securing \$55 in cash and several negotiable notes.

Mansfield, O.—Suit for \$25,000 has been brot against the Goemann Grain Co. by C. H. Workman, administrator of the estate of Theodore Bill, who was killed in an accident while in the employ of the company.

Columbus Grove, O.—J. W. Thompson and C. I. Foust of Elida, O., have bot the elvtr. we recently took from O. W. Stewart in exchange for land.—S. W. Grainger. Mr. Stewart writes that the new firm will be Thompson, Foust & Co.

Bellevue, O.—The Bellevue Farmers Grain Co. recently purchased the L. S. & M. S. Elvtr. of the W. H. Gardner Grain & Mill Co. and is operating this elvtr. in connection with the one formerly owned at this place. They also have a large elvtr. at Monroeville, O., on the B. & O. R. R.—Irvin T. Fangboner, pres. I. T. Fangboner Co.

Toledo, O.—Some of the oats arriving are red-hot, some very badly stained and dirty and of course are only salable at 3c to 6½c under our contract grades of standard. If shippers would run before loading and put over cleaner and blower, net proceeds would be more than if shipped in above mentioned state. Run and clean before shipping.—Daily Market Report.

Milford Center, O.—We have bot the elvtr. of the E. M. Fullington Co. and have also purchased the elvtrs. at Irwin and Woodstock from Howard Townsend. Milford Center will be the general office where all bids for grain and hay will be received and selling done, also buying of all supplies. Officers are H. J. BeBout, pres., Anson Howard, vice-pres., and H. P. Clouse, sec'y and treas. The business will be under the general management of the writer.—The Ohio Grain Elvtr. Co., H. P. Clouse, sec'y-treas.

CINCINNATI LETTER.

The Cleveland Grain Co. has leased the Big Four Grain Elvtr. and will take charge Sept. 1. The Big Four and Early & Daniel Co. have been running the elevator jointly, but the agreement expires Sept. 1. This

new grain company has elvtrs. in several of the large cities, and they are welcomed into this market. The management has not been decided upon as yet.—S.

The strike of teamsters at Cincinnati is not affecting the business of the grain receivers who receive and ship by rail. One of the companies is locally making regular deliveries from its warehouses and elvtr. without delay, and writes that there is absolutely no danger of any kind by any shipper forwarding his grain or hay to Cincinnati, where it will be handled with the usual promptness.

OKLAHOMA.

Grove, Okla.—J. D. Yeargain will engage in the grain and produce business here.

Chattanooga, Okla.—The Brown & Roby Grain Co. of Lawton will build an elvtr.

Grandfield, Okla.—Russell & Duncan are having a peanut plant installed by C. C. Godfrey.

Grandfield, Okla.—R. I. Helton will be mgr. of the elvtr. that is being erected by the Grandfield Elvtr. Co.

Hydro, Okla.—Mr. McElhanney has succeeded L. R. Daniels as mgr. of the Farmers Grain & Elvtr. Co.

Wakita, Okla.—S. C. Hardin has succeeded Mr. St. Clair as mgr. for the Medford Mill & Elvtr. Co. here.

Gotebo, Okla.—The Western Milling Co. incorporated; capital stock, \$10,000; incorporators, Morris Erdwurm and others.

Hennessey, Okla.—The Star Mill & Elvtr. Co. is having built near its elvtr. a large metal storage tank of 15,000 bus. capacity.

Pond Creek, Okla.—The Pond Creek Mill & Elvtr. Co., whose plant burned on June 16, has leased the Howard Mills Co. plant at Wichita, Kan.

Waurika, Okla.—H. H. Wegener of Okarche has taken charge of the elvtr. for Groseclose & Wegener, M. C. Groseclose having gone to Galveston to represent the Oklahoma Grain Dealers Ass'n, as reported in this column Aug. 10.

Guthrie, Okla.—Frank S. Gresham, owner of the Guthrie Mill & Elvtr. Co. has been acquitted of the charge of larceny brot against him by J. W. McNeal, and has brot suit against the latter, a banker, alleging malicious prosecution and false arrest.

OREGON.

Pendleton, Ore.—The Farmers Union Grain Agency has been incorporated.

Portland, Ore.—C. E. Curry & Co. have engaged in the grain business with offices in the Concord Building. Mr. Curry has been identified with the grain trade of the Pacific Coast for the past fifteen years or more and is widely known. On July 1 he resigned the management of the Tri-State Terminal Warehouse Co.

PENNSYLVANIA.

Titusville, Pa.—A grain elevr. of 3,000 bus. capacity is being erected by the Kerr Hill Mill Co. for buckwheat.

Bangor, Pa.—Fire destroyed the grain elvtr. and grist mill of the Flory Milling Co. recently. The loss was \$750,000; cause of fire not known.

Chester, Pa.—T. Frank McCall, a grain dealer here for many years, has retired from business and his two sons will continue the active management of the concern.—C.

Harrisburg, Pa.—The new elvtr. and warehouse of the Paxton Flour & Feed Co. will comprise three buildings 271 feet in length by 83 feet wide. Two sections will be eight stories high and the middle building five stories. The elvtr. will have two sets of nine 2,000-bu. concrete bins and elvtr. legs, each of 2,000 bus. capacity per hour. The entire cost of the structure is estimated at \$100,000, and it will be completed by July, 1914.

Washington, Pa.—We are erecting an elvtr. and feed storage building with a capacity of about 6,000 bus. for loose grain and 2,600 sq. ft. for storage of sacked feed. The building is two stories high with a large roomy cupola.—Russell Bros.

Reading, Pa.—Samuel Diemer, a grain dealer of this city, was seriously injured in a runaway accident recently and though he received a number of contusions about the head and body, his physician states that it will be only a short time till he will be able to be back at his place of business.

Pittsburgh, Pa.—J. L. Armstrong retired from the firm of Armstrong & Clark July 31, his interest being taken by George A. Seavey. On and after Aug. 1, 1913, the business will be continued under the firm name of Seavey & Clark, with offices continuing in the Westinghouse Bldg.—Seavey & Clark.

PHILADELPHIA LETTER.

John F. Wilson is increasing his grain storage capacity.—C.

Application has been made by Thomas K. Sharpless of Philadelphia and S. H. Young & Co. for membership in the Commercial Exchange of Philadelphia.—C.

Fire in the bottom of one of the large grain bins of J. H. M. Walters burned over twelve hours recently. The bin contained several thousand bushels of wheat.

Local grain merchants are showing much interest in the movement which has as its object the educating of the merchants and manufacturers as to the possibilities of the Panama canal and the Delaware river. A conference for this purpose will be held in Philadelphia Nov. 20.—C.

A number of the grain dealers have made application to James L. King, former president of the Commercial Exchange for sleeping car reservations to the convention of the National Grain Dealer's Ass'n in New Orleans next October. Local dealers will make a strong appeal for the 1914 meeting to be held in Philadelphia.—C.

Samuel L. Scattergood, a prominent grain dealer, ex-president of the Commercial Exchange, and now serving on several important committees of that organization, will be a candidate for the office of City Treasurer of Philadelphia. Big business interests and men are coming to the aid of Mr. Scattergood, and the Commercial Exchange has pledged its co-operation and support.—C.

The movement of grain in Philadelphia during the past two weeks has been all that could be desired. Receipts are increasing and the export trade is running far ahead of last year's records. If the present activity is continued, dealers are of the opinion that from now on and up to the first of the coming year, there will be little time for rest, and indications point to excellent prosperity for the grain trade.—C.

SOUTH DAKOTA.

Bath, S. D.—A. J. Murray is building an elvtr.

Humboldt, S. D.—Julius Miller has bot the elvtr. of T. O. Raney.

Emery, S. D.—A Farmers Elvtr. Co. has been organized by Nicholas Ernster, Fred Litz and others.

Spencer, S. D.—L. R. Monell, formerly of Stickney, will buy for the A. A. Truax Grain Co. at this station.

Kidder, S. D.—I have succeeded R. J. Lowden as buyer for the Cargill Elvtr. at this station.—S. O. Nelson.

Spain, S. D.—The Empire Elvtr. here has been dismantled and moved to Regan, N. D.—Marshall County Grain Co., G. T. Roberts, mgr.

Vermillion, S. D.—The Clay County Stock & Grain Co., incorporated; capital stock, \$500,000. Incorporators are D. J. Stafford, O. A. Anderson, S. D. Lamb and A. W. Hayser.

White, S. D.—J. M. Green is now buyer for the Davenport Elvtr. Co.—Barg & Barg.

Grover, S. D.—The Farmers Elvtr. Co. has repaired its house and installed a 10-h.p. Otto Gasoline Engine.

Canova, S. D.—The new elvtr. of the Independent Grain Co. is about completed, which will give four elvtrs. at this point.

Pierre, S. Dak.—A hearing for the making of joint freight rates on all the lines operating within the state will be held here on Sep. 12.

Worthing, S. D.—C. G. Leavitt, grain dealer, has erected a flour house 16x20x8 ft. on the railroad grounds.—W. W. Thorpe, agt. A. H. Betts.

Hudson, S. D.—The Hudson Farmers Elvtr. Co. has been incorporated by H. M. Cable, Gust Berggren, G. H. Rohder and others. Capital stock, \$10,000.

Hecla, S. D.—The elvtr. we are building is 28x35 ft. and of 30,000 bus. capacity, which will give us 55,000 bus. total capacity.—J. E. Scott & Co., W. M. Scott, sec'y.

Salem, S. D.—H. W. Schneider is mgr. of the McCook County Elvtr. Co. Thos. Griffin is assistant mgr. of the Dakota Grain & Coal Co., assisting J. K. Lingenfelder.

Kranzburg, S. D.—The Farmers Elvtr. Co., incorporated; capital stock, \$20,000; incorporators, John Stuckey, Albert Lawrence, Geo. Raider, Joe Braze and F. H. Kluckman.

Geddes, S. D.—The elvtrs. of the South Dakota Elvtr. Co., M. King and the Carlon Elvtr. Co. are closed for the year. The elvtrs. of the Farmers Elvtr. Co., Western Grain Co. and Lindell & Lindsog are open.—A. H. Stauffacher, agt. Carlon Elvtr. Co.

Menno, S. D.—We have incorporated a company called the Farmers Land, Loan & Grain Co. Capital stock, \$200,000; paid up capital now \$125,000. We have taken in elvtrs. of DeWald & Walter and of the Decker Elvtr. Co. and others.—J. J. Decker.

Chapter 362 of the 1913 laws of South Dakota sets forth that grain received at an elvtr. and not checked out within two days becomes stored grain, and the owner of said elevator "shall comply with all the provisions of the laws now in force governing bonded warehouses and elevators for storing grain."

Tulare, S. D.—The Tulare Farmers Elvtr. Co. bot the elvtr. formerly owned by the Columbia Elvtr. Co. The house has a capacity of 10,000 bus. or better. We are situated on the C. M. & St. P. R. R. We are building an up-to-date coal shed. The officers are Howard Elliot, pres., A. J. Price, vice-pres., C. H. Weiting, sec'y, and C. H. Stephens, treas.—H. H. Fink, mgr.

Stickney, S. D.—W. A. Coffin buys for the S. Dak. Grain Co., R. A. Hatch resigned. L. R. Monell, agt. for the Hunting Elvtr. Co., has entered the employ of the A. A. Truax Grain Co. at Spencer, S. D. The Hunting Elvtr. Co. will have a new agt. if its house is opened. John Burbeck has traded his elvtr. to a party at Doon, Ia. Think it will not be operated this season.—A. C. Crowley, agt. Farmers Elvtr. Co.

SOUTHEAST.

Adel, Ga.—John A. Connell has bot the Weathers grain business.

Dublin, Ga.—The Black-Chivers Grain Co. will erect a three-story building.

Gary sta., Tampa p. o., Fla.—Stalnaker Bros., wholesale and retail feed and grain dealers, will open a branch here.

Lynchburg, Va.—The Piedmont Mills had a narrow escape from a disastrous fire on Aug. 14, caused by friction in the separators. Quick action prevented more than about \$2,000 damage.

TENNESSEE.

Nashville, Tenn.—R. Hughes Worke, the grain dealer, is a candidate for the newly created position of Commissioner of Finance and Revenue for Nashville.

Memphis, Tenn.—Lux McFadden, the grain man, has sold his interest in the firm of Rainer, Connell & McFadden, who will now confine their business to cotton.

TEXAS.

San Marcos, Tex.—The Terry Grain Co. has quit business.

Donna, Tex.—J. M. Ringo and H. P. Willis have engaged in the grain business.

Fort Worth, Tex.—Stowers Grain Co. have completed a 48 by 150 ft. addition to their elvtr.

Gainesville, Tex.—Three steel grain storage tanks are being erected by the Whaley Mill & Elvtr. Co.

Fort Worth, Tex.—The Fort Worth Elvtr. Co. received the first new corn on Aug. 16, which came from San Benito, Tex.

Fort Worth, Tex.—Application for membership in the Grain and Cotton Exchange has been made by J. A. Chapman and M. Kita.

Rockwall, Tex.—J. L. Underwood of this city has no elvtr. but handles all kinds of grain.—J. D. Williams, Lyon-Gray Lumber Co.

Waco, Tex.—The Waco Mill & Elvtr. Co. has contracted with the Ft. Worth Power & Light Co. to supply power and light for its plant.

Sanger, Tex.—The Sanger Mill & Elvtr. Co. has recently added new equipment to its grain cleaning department and installed an electric lighting plant.

Fort Worth, Tex.—A report by Chief Grain Inspector J. E. Robinson shows 1,944 cars of grain inspected during July, 1913, against 1,637 cars inspected in July, 1912, an increase of 33% over last year.

Decatur, Tex.—The Lillard Milling Co. has let the contract for a new plant to replace the mill and elvtr. burned July 22 with \$22,000 loss. Slight damage was done to wheat in a steel tank at the time of the fire.

Krum, Tex.—We will rebuild at once our elvtr. which was destroyed by fire on July 2, and install cleaning machinery as near up to date as possible. It will have a storage capacity of about 20,000 bus.—R. L. Cole & Co.

Hearne, Tex.—J. M. Haigler has purchased the interest of C. M. Taylor in the Taylor-Haigler Grain Co. and the business will be conducted in future under the name of Haigler Grain Co. We contemplate building an elvtr. and installing a corn sheller.—Haigler Grain Co.

UTAH.

Salt Lake City, Utah.—W. O. Kay Elvtr. Co. and Inter-Mountain Mill & Elvtr. Co. have been consolidated. R. E. Miller, former mgr. of the Inter-Mountain Mill & Elvtr. Co. is now organizing a new firm to handle grain in a wholesale way.—Vogeler Seed & Produce Co.

WASHINGTON.

Wilsoncreek, Wash.—The Seattle Grain Co. will operate here this season.

Seattle, Wash.—Macdonald, Hale & Co., incorporated; capital stock, \$70,000.

Turner, Wash.—The new 120,000-bu. elvtr. of the Whetstone-Turner Elvtr. Co. has been completed.

Plaza, Wash.—The Seattle Grain Co. has leased two warehouses to the Farmers Union Warehouse Co.

Davenport, Wash.—Inkster Bros. will operate their elvtr. at this station and also their elvtrs. at Rocklyn and Omas, this season.

Spokane, Wash.—The Terminal Elvtr. Co. has been incorporated by B. F. Gill, A. G. Stall and others, with a capital stock of \$100,000.

Lind, Wash.—The Farmers Warehouse Co. is involved in a suit brot by the Bank

of Lind to secure payment of notes amounting to about \$20,000, for which residents of Lind and vicinity had by written agreement guaranteed security.

Mansfield, Wash.—The Mansfield Elvtr. & Warehouse Co. has installed a Midget Marvel Self Contained Flour Mill in its warehouse at a cost of \$4,000.

Creston, Wash.—The Creston Union Grain Co. will soon have its elvtr. completed. White, Dullane & Co., of Seattle, have bot the O'Neil grain warehouse.

WISCONSIN.

Grandmarsh, Wis.—H. H. Peters & Son are building an elvtr.

Merrill, Wis.—The Lincoln Milling & Elvtr. Co. has enlarged its elvtr.

Thiensville, Wis.—Th. N. Wilson has sold his elvtr to the Liebsher & Schaefer Co.

Luxemburg, Wis.—The Luxemburg Milling & Elvtr. Co. is building an elvtr. and warehouse.

West Bend, Wis.—The West Bend Malt- ing Co. is erecting three new concrete storage tanks.

Osceola, Wis.—The Osceola Mill & Elvtr. Co. has increased its capital stock by \$25,000.

Bay City, Wis.—We will overhaul the old elvtr. we have bot here so as to store 5,000 to 6,000 bus.—Farmers Grain Co.

Manitowoc, Wis.—The Gould Grain Co., formerly the Gould Elvtr. Co., has increased its capital stock from \$75,000 to \$250,000.

Denmark, Wis.—The elvtr. to be built at this point is for Kriwanek Bros. Co.—Anderson & Williams, architects, Green Bay, Wis.

Prescott, Wis.—The Equity Exchange of Prescott has increased its capital stock to \$45,000. This company also controls elvtrs. at Diamond Bluff and Ellsworth.

Belleville, Wis.—I am the only dealer in grain and coal here, as I have just bot out John Davies & Son, whose business was the same as mine.—Joseph Breuling, Jr.

Waunakee, Wis.—I have bot the tobacco warehouse of the C. & N. W. Ry. at this station. It is 80x32 ft., two stories and basement, and I will use it for a potato warehouse.—C. J. Schmidt.

MILWAUKEE LETTER.

Thomas Sampson has succeeded F. R. Morris as pres. and mgr. of the Morris-Parry Grain Co.

The members of the Chamber of Commerce met in afternoon session Aug. 15 to consider the new rules by railroads on storage of freight on team tracks and adjourned hearing.

New grain is commencing to move slowly. Farmers are inclined to hold for better prices. Crops of grain have turned out well. The malting capacity here has been increased considerably and the demand for barley is unusually large.—Owen & Bro. Co.

MISSOURI business men and farmers turned out 250,000 strong on Aug. 20 and 21 to improve the state roads. The work accomplished on these two days is estimated to be worth \$1,500,000. The roads were greatly bettered, and a strong enthusiasm for good roads was developed. Governor Major will ask every state in the Union to set aside two days in 1914 as "good roads" days.

THREE MORE employees of the United States weather buro were discharged July 31 for alleged participation in the political activity which resulted in the removal of former Chief Willis L. Moore. They are Professor H. L. Heiskell of the Office of Meteorology, Daniel J. Carroll, chief clerk of the Buro, and R. E. Pollock, section director at Trenton, N. J.

Seeds

The Farmers Elevator Co., Monticello, Ind., is installing a 50-bu. Clipper Seed Cleaner.

Arcanum, O., Aug. 19.—Look for good crop of clover seed in this vicinity.—The John Smith Co.

Idaville, Ind., Aug. 20.—Clover hulling will begin next week with dry weather.—Loughry Bros. Milling & Grain Co.

We are looking for a good crop of clover seed and cowpeas this season.—Castleman-Williamson Co., Culver, Ind.

Arthur E. Schultz, Olney, Ill., has registered the words, "Lucky Strike," as a trademark for his alfalfa and grass seeds.

Clover looks fine, with large acreage. Yield of timothy fair but stand not so good.—L. Teweles & Co., Milwaukee, Wis.

Kendallville, Ind., Aug. 19.—If weather continues favorable, clover crop shud be large and of good quality.—Campbell & Co.

E. W. Conklin & Son, Inc., Binghamton, N. Y., have registered the trade name, "Northern Wonder," to cover their line of grass and grain seeds.

The Cherry Seed Co., of which Charles J. Cherry is the head, has leased a store at Rockford, Ill., and will engage in a general seed business, beginning Sept. 1.

Wanted, address of "Dr. A. Ward Miller & Co., Park and Boulevard Experts." In June Mr. Miller ordered grass seed shipped to Twin Falls, Idaho, also more shipped by freight, but failed to call for it.

To comply with the new Ohio Seed law we suggest that shippers write "To be cleaned" on tags when shipping seed into Ohio. The seed will then be handled just as it always has been.—J. F. Zahm & Co.

Duluth received 1,758,000 bus. of flaxseed and shipped 2,693,791 bus. during July; compared with 431,913 bus. received and 764,084 bus. shipped during July, 1912.—Chas. F. Macdonald, sec'y Duluth Board of Trade.

Alexandria, O., Aug. 19.—Clover seed will be a very good crop, barring bad weather. It seems to be filling nicely. Some farmers will cut it for hay, thinking that the price will be low, shud the crop be as good elsewhere.—P. M. Ashbrook.

Chile sells some of its clover seed to Liverpool dealers on "F. A. Q." terms, which means fair average quality. Chilean seed is seldom pure, most of it containing foreign seeds. There is a possibility of direct business with the United States as soon as the Panama Canal is open for traffic.—C. A. King & Co.

The Michigan Pure Seed Law became effective Aug. 15. The State Board of Agriculture has authorized Dr. Ernest Bessy of the Michigan Agricultural College to issue a circular giving the requirements of the law. The Board is taking active steps to enforce the law and prohibit the sale of adulterated seed.

Congress is now considering a bill introduced by Senator Gronna regulating seeds in interstate commerce. The bill is similar to the present statute regulating the importation of seeds into this country. It specifies the allowable per-

centage of impurities in seeds and also establishes a minimum germination standard.

The Wisconsin seed law, which requires that all seeds must carry a label, stating the purity of the seed, has been signed by Governor McGovern. The law, which was drafted by Professor R. A. Moore of the Wisconsin Agricultural College, authorizes the purchase of seed in the open market for test purposes and the prosecution of violations.

Imports of seeds during the twelve months prior to July 1 included 5,294,296 bus. of flaxseed and 21,224,557 lbs. of clover seed, compared with 6,841,806 bus. of flaxseed and 38,551,137 lbs. of clover seed imported during the corresponding period of 1911-1912. Exports during the twelve months included 5,407,594 lbs. of clover seed, 17,559,653 lbs. of timothy seed, and 16,894 bus. of flaxseed, compared with 1,874,682 lbs. of clover seed, 4,354,556 lbs. of timothy seed, and 4,323 bus. of flaxseed exported in the corresponding period of 1911-1912. Exports of foreign seeds during the twelve months prior to July 1 included 1,810 lbs. of clover seed and 168 bus. of flaxseed, compared with 128 lbs. of clover seed and 21,919 bus. of flaxseed exported during the corresponding period of 1911-1912, as reported by O. P. Austin, chief of the Bureau of Statistics.

CROP IMPROVEMENT.

The Cattaraugus County Crop Improvement Ass'n has employed an agricultural expert, who will devote his time particularly to the introduction of new crops. The ass'n will receive \$1,500 from the Board of Supervisors of the county this fall and now gets \$50 a month from the state. A \$1,000 check from the Sears, Roebuck funds was also recently received by the ass'n.

The North Dakota Agricultural College is inspecting crops in the field for the purpose of selecting pure bred seed. The college is co-operating with farmers and is working under an arrangement whereby it certifies to the purity and germinating qualities of all seed which it has inspected either in the field or before threshing. Such seed is bagged and sealed with a lead seal, and is known as "registered pedigree seed." A list of the growers of such seed is published by the college for the information of farmers.

HOME MADE SEED TESTER.

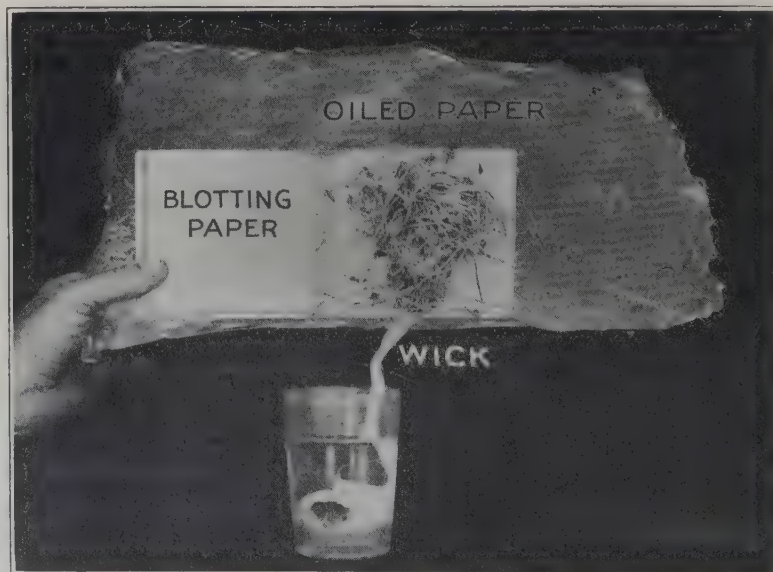
A highly satisfactory seed tester for small grains that can be made in a few minutes is shown in the engraving. It consists of an ordinary piece of white blotting paper 6 in. wide and 19 in. long, folded in the middle. A wick of cotton cloth, a glass of water, and a piece of waxed butter paper complete the tester.

The first step consists in getting an average sample of the seed to be tested. The grain shud be thoroly mixed before taking the sample so as to make sure of obtaining a really representative sample. One hundred seeds are then counted and placed on one flap of the blotting paper, which has previously been soaked with water. One end of the wick shud be stuck to the blotting paper and the other end placed in a glass of water. The other flap of the blotting paper shud be folded over and the seed wrapped in the oiled paper to retain the moisture. The tester shud be kept at a temperature not exceeding 65 or 70 degrees, as the seed is apt to become moldy if kept too warm.

After the seed has been permitted to sprout for six or seven days, a count can be made of the strong kernels. By subtracting the number sending forth weak shoots or dead from the whole number, the percentage of strong seeds is obtained. Grain that does not test 95 to 98% shud be re-tested to make sure that the fault is not in the testing. If it again falls below this standard, it is unfit for seeding and shud not be used.

JUTE BAGS imported into this country are subject to a duty of 10% ad valorem in the Underwood tariff as it now stands. Senator Jones of Washington has announced, however, that he will offer an amendment to the bill as follows: "Provided that jute grain bags, known as Standard Calcutta, 22 in. by 32 in. grain bags, shall be admitted free of duty."

ANOTHER BILL to stop gambling in stocks was introduced into Congress Aug. 8 by Representative Hulings of Pennsylvania. The bill compels all those dealing in securities or acceptances representing commodities to effect a delivery of the material bot and sold at the close of each transaction and to execute a bill of sale to which government internal revenue stamps have been affixed.



Inexpensive Home-made Seed Tester for Small Grains.

From the Seed Trade.

EVANSVILLE, IND., Aug. 22.—The prospects for the growing crop of clover seed are very encouraging and the quality from all appearances will be good. The timothy seed crop may be considered an entire failure. Orchard grass is short and of an inferior quality. Red top will only be about one-fourth of a crop, and this of an inferior quality. The farmers in this vicinity have discontinued the sowing of timothy seed for hay and this is now being replaced by alfalfa with very good results.—G. M. Purcell, with the American Pure Seed Co.

JACKSON, MICH., Aug. 21.—Alsike clover in our section is practically a failure. The seed did not fill and farmers are not hulling it on this account. Mammoth clover has filled quite well and is yielding well; the acreage is about an average. Medium clover is now in bloom and early fields are filling well. The latter seed all depends upon whether the weather will be wet or dry from this time on. If the weather conditions are right we will have above the average on medium seed. The acreage is larger than usual and the plant is looking fine. Beans are reported to be damaged by the hot dry weather. Just how serious, we are not in position to say at this time.—S. M. Isbell & Co.

LONDON, ENGLAND, Aug. 8.—Trefoil gives a larger crop than last year in England and on the continent. England seems to have the best quality. Trifolium will make a good crop in France and England; the majority was put up in good condition but part of the crop was spoilt in both countries. Good crops of Italian rye grass of fine quality will be produced in England, Ireland and France. The seed is well awned and the opening prices of English and French seed seem reasonable. Perennial rye grass has been greatly benefited by the recent fine weather. The crop is now being harvested and promises to be of good quality. Prices will rule lower than for many years. Europe will produce an average crop of meadow fescue; America, half an average crop.—C. W. LeMay & Co.

NEW YORK, Aug. 16.—In Austria the harvesting of white clover is now in full session, and owing to the favorable weather of the last days the crop is expected to be an average one this year. In several sections there were some rather heavy rains which have proven detrimental and such seed will undoubtedly be discolored; in fact, among the first arrivals which are coming on the market only a few parcels of high grade quality can be found. In red clover the acreage is large and the plants have not suffered by rain so far. The crop will, of course, depend greatly on the weather during this month and September, but should same continue to be favorable there will be an abundant crop. Alsike in general stands well, only some will be a little rain-stained. A good average crop is expected.—Loewith, Larsen & Co.

PUEBLO, COLO., Aug. 22.—Little seed grown in this neighborhood except the very early varieties of corn and milo. White Australian corn (white flint) will be a good crop, also millers yellow dent. With a few exceptions Turkey red and the spring varieties of wheat will be light and not fit for seed. The corn and milo used for seed are dry-farming crops. Alfalfa hay about 2/3 of a crop. The alfalfa mills will take a good portion of the crop this season and it will be shipped East.—Pierce Seed & Produce Co.

SHENANDOAH, IA., Aug. 23.—The long continued drouth in this section did not begin until about July 5th, and all farm seeds were measurably well made before that time. Grass seeds were fairly good, clovers but half a crop. Owing to low prices on timothy seed the past season, but a small per cent was saved or cut for seed purposes. Seed corn crops, with the general corn crop, will not exceed 60% of an average, but dry weather has advanced it unusually rapidly and it will all be sound, well matured and of high grade in germination. Wheat and oat crop, also other small grains made unusually well both in yield and quality.—Ratekin's Seed House.

WICHITA, KAN., Aug. 22.—Seed corn and good quality kafir will turn out much less crop this year than normal. It depends entirely on rainfall and weather conditions for the next thirty days what these crops will do. Milo maize, in some parts of Kansas is in good condition, and will turn out probably 40 to 70% of an average crop. Millet seed is short. Cane seed is below normal. Alfalfa is turning out good yield of excellent quality seed. The crop is above normal, but we are unable to get accurate figures in the matter of percentage.

We do not believe that farmers in this state will change from the old and tried sorts of crops to take up newer kinds. Of course, in Kansas, we grow such a variety of forage crops and grain seed crops that there is not much left for them to test. Last year's market price for cane caused a smaller acreage to be planted this year. All other forage crop seed was planted in normal quantities. We do not think any permanent change has been caused by last season's prices, nor this season's drouth to influence the farmers in doing differently than they have been doing the past five years. Of course, in some parts of the state they will undertake irrigation on a larger scale than in past years, and other districts of the state will use irrigation to some extent in the future. Yours very truly, Ross Bros. Seed House.

HAIRY VETCH SEED Adulterations.

During 1912 the United States Department of Agriculture purchased in the open market 391 samples of hairy vetch seed for testing. Of these samples, 207, or 53 per cent, were found to be adulterated or misbranded. Seventeen samples contained no seed of hairy vetch, but were different cultivated varieties of spring vetch, and 190 samples consisted of mixtures of hairy vetch, spring vetch, and other vetches. In 1911 62 per cent of the samples of vetch seed purchased were found to be adulterated.

The seed of hairy vetch can easily be distinguished from that of other vetches by the difference in color when crushed. Hairy vetch seed is a lemon-yellow color, somewhat lighter on the flat than on the rounded surface. The seed of other vetches occurring with hairy vetch varies in color from a dark fawn to reddish orange. If, upon crushing a handful of seed, the purchaser finds any fawn, salmon, or reddish orange colored pieces, he will know that the seed is not pure hairy vetch.

The Secretary of Agriculture in Circular No. 45, issued July 19, gives a list of the seed dealers whose hairy vetch seed was found to be adulterated.

Sample Envelopes

Non-Sifting

Designed especially for mailing samples of grain and seed. Specimens Free.

TULLAR ENVELOPE CO.
67 Larned St. Detroit, Mich.

PAPER CLIPS

PREPAID—1000-30c, 5000-\$1.00
10,000-\$1.75 20,000-\$3.00
F. O. B. Buffalo, N. Y. 100,000 or more,
9c per 1000
Also other styles of Clips at reduced prices
THE CLINCH CLIP CO.
192-96 Seneca St., Buffalo, N. Y.

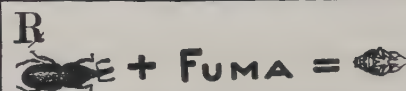
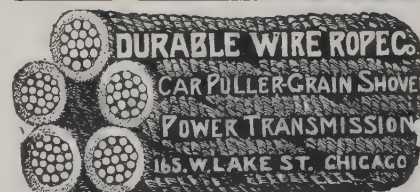
Cover's Dust Protector

Rubber Protector, \$2.00

Send postpaid on receipt of price; or on trial to responsible parties. Has automatic valve and fine sponge.

H. S. COVER

124 Perley St., SOUTH BEND, IND.



Live weevil plus a little Fuma equals
dead ones every time.

Fumigate Your Elevators and Mills with

FUMA

The only satisfactory method of treating grain
in the bin, kills all insects, weevils, moths, etc.

10c. per lb., in 50 lb. and 100 lb. drums.

Send for printed matter.

EDWARD R. TAYLOR

Manufacturing Chemist PENN YAN, N. Y.

Transit Leaks

are unknown to the grain shippers
who use

Kennedy Car Liners

Enormous Increased Sales prove the
Efficiency, Merit and Serviceability of
these liners.

The Kennedy Car Liner

is the only device offered the grain shipper
that makes a car Leak-Proof.

CHEAP—MODERN—PROFITABLE

Write now for particulars

The Kennedy Car Liner & Bag Co.

SHELBYVILLE, INDIANA, U. S. A.

Grain Shippers

and in fact all grain men who are
wide awake and on the alert to
get onto all the ins and outs of the
grain business, subscribe for and
read the Grain Dealers Journal.

Changes in Rates

As shown by tariffs recently filed with the Interstate Commerce Commission the carriers have made the following changes in rates:

Gulf, Colorado & Santa Fe in Cir. 2247 quotes elevator allowance on grain at Fort Worth and North Fort Worth, Tex., effective Aug. 26.

Minn. & St. Louis quotes a rate of 8.2c on wheat and flaxseed, and 7.2c on corn between Minneapolis and Glenville, Minn., effective Aug. 6.

B. & O. in Sup. 2 to ICC 10085 quotes rates on grain and grain products from its stations to Jacksonville, Fla., and Savannah, Ga., effective Sept. 1.

C. B. & Q. in Sup. 19 to 5100-B quotes rates on flaxseed, grain and grain products between Iowa stations and Chicago, Peoria, and East St. Louis, Ill., effective Sept. 5.

C. R. I. & P. in Sup. 8 to 13207-F quotes rates on grain and grain products from Missouri River stations to Ill., Ia. and Wis. points on connecting lines, effective Sept. 13.

Western Trunk Lines in Sup. 3 to Circular 11-A gives rules governing transit privileges on grain at stations where elevators, mills, etc., are located, effective Sept. 15.

Mich. Cent. in Sup. 14 to 9073 quotes a rate of 13c on grain and grain products from Oxford, Rochester, and Rochester Junction, Mich., to Louisville, Ky., effective Sept. 15.

C. I. & S. in Sup. 6 to 131-E quotes rates on grain and grain products from stations on C. I. & S. and C. & W. V. Rys. to C. F. A. and Canadian points, effective Sept. 11.

M. & O. in Sup. 2 to 7365 quotes rates on grain and grain products from Cairo, Ill., to Ala., La. and Miss.; also gives rules governing transit privileges at Cairo, effective Sept. 2.

A. T. & S. F. in Sup. 2 to 7481-D quotes rates on grain products from stations between St. Joseph, Mo., and Winona, Kan., inclusive, to stations in Ark., La., and Miss., effective Sept. 1.

C. & N. W. in Sup. 9 to 12575-C quotes a rate of \$4.50 per car for switching grain and grain screenings from connections to various Chicago district points, effective state July 31; interstate Sept. 2.

A. T. & S. F. in Sup. 2 to 7481-D quotes rates on grain and grain products from Kan., Colo., and Okla. stations, also Superior, Neb.; to Ala., Ark., La., Mo., Miss., and Tenn. points, effective Sept. 1.

Santa Fe quotes a rate of 22c on oats from Sulphur, Okla., to Memphis, Tenn., and Little Rock, Ark.; oats 19c from South Guthrie, Okla., to Little Rock and 21c to Memphis, Tenn., effective Sept. 14.

Western Trunk Lines in Sup. 8 to Circular 1-J give rules in connection with furnishing cars of different size than ordered, grain doors, and minimum weights on grain products, effective Sept. 1.

C. B. & Q. in Sup. 27 to 5400-A quotes rates on grain and grain products between Omaha, Neb., Sioux City, Ia., St. Joseph, and Kansas City, Mo.; and C. B. & Q. stations and connections, effective Sept. 1.

B. & O. in Sup. 3 to ICC 11238 quotes rates on grain and grain products from its stations to C. & O. N. & W., Southern, R. F. & P., Washington Southern, and Valley R. R. of Virginia stations, effective Sept. 6.

Canadian Pacific quotes a rate of 12c on grain and mill stuffs and 13c on flaxseed, linseed meal, oil cake and oil meal from Winnipeg, Man., to Duluth, Minneapolis, Minnesota Transfer, St. Paul, Minn., and Superior, Wis., effective Sept. 10.

Ill. Cent. in 1113-A quotes rates on grain and grain products from C. G. W. stations in Ia., and Minn., to I. C. and Y. & M. V. stations and connections in Ala., Ark., La., Miss., and Tenn., effective Sept. 2.

Ann Arbor in Sup. 11 to A-417 quotes rates on grain and grain products from its stations and connections to New York, Philadelphia, Baltimore, Boston, and other Eastern, New England, Virginia, and Canadian points, effective Sept. 3.

C. B. & Q. in Sup. 32 to 1800-B quotes rates on flax seed, broom corn, wheat and corn from stations in Neb., Colo., S. D., Wyo., and Mont., to St. Louis, Mo., Peoria, Chicago, Ill., St. Paul, Minneapolis, and Duluth, Minn., effective Sept. 1.

Mo. Pac. in ICC A-2384 cancels A-1170 quoting rates on grain and grain products from Ill. points, St. Louis, Carondelet, Mo., and Memphis, Tenn., to St. L. I. M. & S. stations and connections in Mo.; also from stations in Ill. to Texarkana, Ark., effective Sept. 1.

C. R. I. & P. in Sup. 16 to 28675-A quotes rates on grain and grain products between Missouri River Points, including St. Louis, Mo., and East St. Louis, Ill., and stations in Colo., Ill., Ia., Kan., Mo., Neb., and Okla.; and stations in Colo., Kan., Mo., Neb., N. M., and Okla., effective Sept. 6.

C. G. W. in Sup. 5 to 92-A quotes rates on grain, grain products and flaxseed between Minnesota stations and Minneapolis, Minnesota Transfer, Red Wing, St. Paul, South St. Paul, and Winona, Minn.; also gives minimum weights on grain, flaxseed, oat clips, and elevator dust, effective state Aug. 15; interstate Oct. 1.

Ill. Cent. quotes a rate of 21½c on wheat and 20½c on corn and oats from St. Louis, Mo., and East St. Louis, Ill., to Key West, Fla., for export to Havana; also wheat 11½c and corn, rye, barley and oats, 10½c from same points to New Orleans, La., for export to foreign countries other than Europe, Asia and Africa; effective Sept. 4.

C. B. & Q. in Sup. 38 to 3200-B quotes rates on wheat, corn and flaxseed between Chicago, Peoria, Galesburg, Amboy, Smithboro, Centralia, Galena, Ill., St. Louis, Mo., Oskaloosa, Bolton and Fosterdale, Ia.; and Kansas City, Leavenworth, Atchison, St. Joseph, Nebraska City, Omaha, South Omaha, Pacific Jet., Council Bluffs and Sioux City, Ia., effective July 15.

M. K. & T. quotes corn 16c, wheat 19c, linseed meal 16c, millet seed 21c, hemp seed 24c and flaxseed 21c from Gas and Iola, Kan., to Fort Smith, Ark.; also corn 17½c, wheat 20½c, linseed meal 17½c, millet seed 23c, flaxseed 23c and hemp seed 26c from Gas and Iola to Little Rock, Ark.; and corn 17c and wheat 18½c from Gas and Iola, Kan., to Memphis, Tenn., effective Sept. 1.

C. G. W. in Sup. 18 to 14903 quotes rates on grain, grain products, millet and flaxseed between various Iowa stations on C. G. W.; Colfax Northern, Crooked Creek; Ft. D., D. M. & S.; Inter-Urban; Mason City & Clear Lake; Waterloo, Cedar Falls & Northern; and St. P. & K. C. S. L. Rys.; and Atchison, Leavenworth, Kan., Kansas City, Kan.-Mo., St. Joseph, Mo., and Des Moines, Ia., effective Sept. 11.

C. & A. in Sup. 13 to 1596-A quotes rates on wheat, corn, oats, rye, and barley, screenings, feeds, grain products and alfalfa meal from C. & A. stations in Illinois, also Louisiana, Mo., to Memphis, Tenn.; also rates on corn, oats, and grain products from C. & A. stations to Mobile, Ala., New Orleans, Port Chalmette, Westwego, La., and Pensacola, Fla., when for export to Europe, Asia and Africa; effective Sept. 11.

Grand Trunk quotes an ex-lake rate of 5½c on wheat and flaxseed, rye 5½c, corn and barley 4½c, and oats 3.70c from Collingwood, Depot Harbor, Goderich, Kingston, Midland, Port Colborne, Sarnia and Tiffin, Ont.; also wheat and flaxseed 5c, rye 4½c, corn and barley 4½c, and oats 3½c from same points to Portland, Me., when destined to foreign countries except Newfoundland, St. Pierre, and Miquelon, effective Sept. 1.

C. & A. in Sup. 6 to 1581-B quotes rates on grain and grain products from C. & A., M. & St. L., T. St. L. & W., Detroit & Toledo Shore Line, Macoupin County Ry., and Rock Island Southern Ry. stations to Atlantic seaboard, eastern Canadian and interior points, effective Sept. 1.

Nor. Pac. quotes a rate of 9½c on grain from Cable, Minn., to Bemidji, Minn.; 16c on grain between Duluth, Minn., and Superior, Wis.; and International Falls, Minn.; 12c on millfeeds from Casselton, N. D., to Bemidji, Minn.; 7.9c on grain and millfeeds from Wadena, Minn., to Bemidji, Minn., effective state July 21, interstate Aug. 20.

Kansas City Sou. quotes a local rate of 18c on wheat and 17c on corn from Kansas City, Mo.-Kan., to Memphis, Tenn.; also a proportional rate of 14c on wheat and 13c on corn from Kansas City, Mo.-Kan., to Memphis, Tenn., and a proportional rate of 18c on wheat and 16c on corn from St. Joseph, Mo., to Memphis, Tenn., effective Aug. 25.

C. & N. W. in Sup. 18 to 11475-A quotes rates on flaxseed, wheat, corn, oats, rye and barley between Chicago, East Clinton, Peoria, Ill., Milwaukee, Green Bay, Marinette, Rhinelander, Hurley, Wis., Minneapolis, Minnesota Transfer, St. Paul, Duluth, Minn., Michigamme, and Marquette, Mich.; and stations in Iowa, Minnesota, and South Dakota; effective state July 21, interstate Aug. 25.

Frisco quotes wheat 22½c, corn 19½c, flaxseed 30c, and hemp seed 33c from Ralph, Okla., to Memphis, Tenn.; wheat 24½c, corn 21½c, flaxseed 31½c, and hemp seed 34½c from Hammon Junction, Okla., to Memphis; wheat 26½c, corn 21½c, flaxseed 31½c, and hemp seed 34½c from Herring, Okla., to Memphis; and wheat 26½c, corn 21½c, flaxseed 31½c, and hemp seed 34½c from Strong City, Okla., to Memphis, effective Sept. 8.

C. B. & Q. in Sup. 4 to 6786-C establishes a minimum weight on all grain except oats of 4,000 lbs. less than the marked capacity of car, but not less than 40,000 lbs., except that when the marked capacity of car is less than 40,000 lbs., the minimum weight will be the marked capacity but not less than 30,000 lbs. For oats, the minimum weight for cars not over 34 ft. long is 34,000 lbs., cars not over 36 ft. long 40,000 lbs., and cars over 36 ft. long, 50,000 lbs., except where marked capacity of car is less than these minimums, in which event such marked capacity will govern, but not less than 30,000 lbs. However, where cars are loaded to full visible capacity, the actual weight will apply, regardless of the established minimum weights. Effective Aug. 15.

C. B. & Q. in Sup. 39 to 3200-B quotes rates on flaxseed, corn and wheat between Chicago, Peoria, Galesburg, Amboy, Smithboro, Centralia, Galena, Ill., St. Louis, Mo., Oskaloosa, Bolton, and Fosterdale, Ia.; and Kansas City, Leavenworth, Atchison, St. Joseph, Nebraska City, Omaha, South Omaha, Pacific Jet., Council Bluffs, and Sioux City; also rates on wheat, corn, oats, barley, and rye, between Garrettson, Booge, Corson, Sioux Falls, Tea, Lennox, Davis, Viborg, Aggergaard Spur, Irene, Volin, Mission Hill, Yankton, S. D., Manley, Hills, Minn., Lester, Alvord, Doon, Perkins, Sioux Center, Maurice, Struble, Dalton, Merrill, Hinton, James, and Leeds, Ia.; and Nebraska City, Omaha, South Omaha, Neb., Council Bluffs, Ia., Kansas City, St. Joseph, Mo., Atchison, and Leavenworth, Kan., effective Sept. 1.

AN ENEMY of the chinch bug has been discovered by James W. McColloch, assistant entomologist of the Kansas Agricultural College, which it is believed will prove a valuable means of exterminating the bug. The newly-discovered insect is a parasite of the chinch bug and when subjected to experiments at the Agricultural College destroyed 20% of the chinch bug eggs with which it came in contact. It will be bred at the College and distributed over the state.

Supply Trade

Chicago Caller.—C. L. Aygarn, Mgr., Challenge Mfg. Co., Morris, Ill.; Geo. Bernert, Bernert Mfg. Co., Milwaukee, Wis.; Jos. Volkommer, New York, N. Y.

Chicago, Ill.—Ceresit Waterproofing Compound, manufactured by the Ceresit Waterproofing Co., has been awarded the Grand Prix at the World's Fair held this year at Ghent, Belgium.

Milwaukee, Wis.—The policy of combining the present scattered plants of the Allis-Chalmers Co. where economy warrants, has been announced by President Falk. The company expects soon to transfer to Milwaukee many of the departments of the Chicago works, possibly some 800 to 1,000 men being brot there.

Dallas, Tex.—Mr. J. Instone, who is now representing the Richardson Scale Company in the Southwest, making his headquarters here, has had considerable practical experience in the automatic scale business, and is thoroly conversant with every type of scale made by the Richardson Scale Company. We wish him every success.

Silver Creek, N. Y.—The recent Eureka picnic, held by the officers and employees of the S. Howes Co. and the immediate members of their families, is reported to have been a huge success. Perfect weather conditions and the happy selection of Orchard Beach Park, Pa., on the shores of Lake Erie, permitted the most to be made of the generous entertainment that had been provided.

Chicago, Ill.—The Hess Warming & Ventilating Co. has issued a very attractive mailing circular, devoted to the Hess "family," giving brief illustrated descriptions of their products. The latest addition is their electric dish washer, which is claimed to save more work in the family than any other kind of household machine. Circular will be mailed to any interested reader of the Journal upon request.

Chicago, Ill.—W. H. Salisbury & Co., pioneer belting experts, will be glad to send free to any belt user a copy of their "Belting Records" book. This book is arranged so that the operator may enter correct records of his belting, size of pulleys of various machines, speed, name, maker, length, width and ply of about 100 belts. These records, accurately kept, will enable the operator to ascertain which make or kind of belting is giving him the best and longest service on the most economical basis. The book is a "Salisbury" idea, and worth sending for.

Sibley, Iowa.—Wud it be right for the Sec'y of State to issue a charter to a so-called corporation whose *proposed* by-laws contain a provision that, "the purchaser of stock may acquire the same by executing to said corporation his promissory note therefore, together with security satisfactory to the officers, in lieu of cash payment for said stock"? If he did issue a charter and the officers and stockholders had nothing, in fact were judgment proof, wud they be liable for the debts of the company? After the company had accumulated a large amount of indebtedness cud its officers throw it into bankruptcy and escape all liability? —I. M. Anxious.

No, Mr. Anxious, and we doubt very much that any supply men are such easy suckers as to fall for so shallow a game.

Fargo, N. D.—Recent experiments conducted in testing the various seed cleaning machines have been of great interest to the farmers of North Dakota. With the large amount of mustard and wild oats in the grain fields, the necessity of improved seed is impressed on everyone, and the tests of machinery are expected to result in new patents and improvements that will secure the maximum of satisfaction in results.

Good Reputation Is Greatest Asset.—It gets business and keeps it. Bad reputation makes getting business difficult and keeping it impossible. One of our Kentucky friends has a good creed. He says: "We believe that if we expect to enjoy the warmth of money we must first build the fire of service. We believe that the 'Science of Business is the Science of Service,' and that 'He profits most who serves his fellows best.' We believe in working, not waiting, laughing, not crying, boosting, not knocking, and in the pleasure of doing business."—C. A. King & Co.

New Process of Oat Bleaching.

The Ellis Drier Company of Chicago, who has been experimenting with oat bleachers for a number of years, has recently perfected a method of bleaching which the members of the company feel is satisfactory in every respect. The following claims are made by this company in regard to its construction and operation:

(1) No power consuming mechanism such as positive blower is required.

(2) The use of the so-called "restricted aperture," which was formerly considered necessary to allow the excess fumes to pass off, has been completely eliminated.

(3) An efficient fume cooler has been devised which occupies one-tenth the space taken by the steel tank commonly used for the purpose.

(4) A double pass furnace provided with baffles which effectually produces a thoroly uniform gas.

(5) The fire hazard which is great with bleachers sucking or forcing their fumes has been completely overcome.

(6) A method of atomizing the water used to dampen the oats which insures a perfect contact with the material.

(7) A construction which produces absolutely even and continuous feed.

(8) Method of accurately and quickly regulating the mixture of vapor and gas before entering the bleacher for the purpose of light or heavy bleaching. This means economy in sulphur consumption.

The Ellis Drier Co. claim that the bleaching accomplished by this method is superior in every respect to anything ever attempted in the bleacher line.

THE CLARK amendment to the Underwood tariff placing a tax of 1/10c per lb. on cotton futures will completely stop hedging and contracts for future delivery, and will increase the cost of handling this year's crop anywhere from \$100,000,000 to \$400,000,000, according to a statement issued July 29 by the New Orleans Cotton Exchange. The Exchange further states that the present system of hedging and future deliveries has saved many millions in the handling of cotton, and that its elimination will, because of the necessity for increased capital and credit, drive the small buyers out of business and will lessen competition. The Exchange further points out that nine-tenths of the crop is moved thru hedging agreements and that every sale of spot cotton on any terms will be affected by the tax.

Grain Drying Economy

There is a profit in grain drying, but that profit is greatest when the drying is handled in a machine which is economical in operation. There is a great difference between driers in this regard, chiefly in the amount of power consumed.

In the Hess Drier, low speed fans are used, while in other makes of driers, in which the air must be forced through wire mesh, perforated metal and multitudinous small air spaces, high air pressure and HIGH SPEED fans are necessary.

We pointed out, recently, the enormous increase of power when you speed up the fan from low pressure to high pressure, viz., an increase from 200 revolutions to 600 revolutions means that the higher speed consumes *Sixteen times as much power* as the lower speed.

In the Hess Dryer, with its broad, free, air spaces, and absence of wire netting, perforated metal, and other obstructions, we can pass an enormous volume of air at low pressure, and we save very considerably in the cost of operation.

Another feature of economy in the Hess Drier is the drawing of the warm air from the cooling grain and utilizing it for drying, instead of wasting it. This system, as we apply it, is patented, but its value has been recognized by other drier makers and it has been necessary for us to commence suit to restrain other makers from using it, and infringing our patents.

A third economy is a new design of steam coils, which economizes very greatly, not only in the use of steam, but in the matter of repairing, for our new coils are free from strains, drain perfectly and will stand any boiler pressure that can be put upon them, yet may be used to great advantage with exhaust steam, if available.

Insurance men also approve them as being safer than the old type with cast iron headlars and manifolds.

We have other points, too, to offer, which cannot be described in this space, but we would be very glad to tell you all about them and to show you, in a manner that will satisfy you, that the economical features of our drier cannot be found in others, and that the use of our drier in your work will mean greater profit and less expense than with other systems.

We will be pleased to send printed matter and a representative, if you say so.

Hess Warming & Ventilating Co.

907 Tacoma Building, CHICAGO

P. S.—Very soon you will need a

MOISTURE TESTER

or, if you have one, you will require new parts. Ask for our booklet, with full directions for operating, before you buy.

Supreme Court Decisions

Effect of B/L.—A non-negotiable "bill of lading" is not evidence of title, but is merely a receipt and contract of carriage.—*In re Livingston & Turk*. U. S. Circuit Court of Appeals. 205 Fed. 364.

Delivery of Telegraf Messages.—A messenger of a telegraf company delivering a message at the terminal office is the agent of the company, and not of the sendee, and a payment to the messenger of the charges is a payment to the company.—*Western Union Telegraf Co. v. Boteler*. Supreme Court of Alabama. 62 South. 821.

Arbitration.—Where an arbitrator considered himself as a representative of the party to the arbitration appointing him, and in the arbitration proceedings acted on such belief, and his judgment was influenced thereby, the award must be set aside.—*Central Union Stock Yards Co. v. Uvalde Asphalt Paving Co.* Court of Chancery of New Jersey. 87 Atl. 235.

Discrimination by Carrier.—The Railroad and Warehouse Commission may intervene to prevent discrimination prohibited by law and to require a railway, which provided instrumentalities convenient in the business of transportation at one place, to provide substantially equal facilities at another.—*Railroad & Warehouse Commission v. Great Northern Ry. Co.* Supreme Court of Minnesota. 141 N. W. 1102.

Liability of Carrier.—An action not upon a B/L but upon the common-law liability of a common carrier for injury to goods caused by delays in transportation, if not barred by a shorter period of limitation, is covered by the general statutory limitation of four years for bringing "any action for relief not specifically provided for in this chapter" of the statutes of limitations.—*Milteer v. Seaboard Air Line Ry. Co.* Supreme Court of Florida. 62 South. 830.

Carrier's Liability as Warehouseman.—The property involved was left by the plaintiff consignee with the defendant carrier for 53 hours after notice to him of its arrival at the point of destination, when it was destroyed by fire. It is held, under the facts of the case, as a matter of law, and independently of the provisions of the shipping bill, that at the time of the fire the liability of the carrier as an insurer had ceased, and that its liability was that of a warehouseman.—*Rustad v. Great Northern Ry. Co.* Supreme Court of Minnesota. 142 N. W. 727.

Negligent Billing of Freight.—In an action against a railroad company for negligently billing a shipment to a wrong destination, where the decisive issue is whether the agent of the company was negligent in billing the shipment contrary to instructions from the shipper, or whether the shipper was negligent in failing to examine the B/L after it was handed to him by the agent, and such issue is properly submitted to the jury, the finding of the jury will not be disturbed, if it is reasonably supported by the evidence.—*Ft. Smith & W. Ry. Co. v. Harrison*. Supreme Court of Oklahoma. 133 Pac. 222.

Negligence of Telegraf Company Not "Gross."—Where an employee in the office of a telegraf company, receiving a message for delivery to a sendee, who maintained a business office and who had arranged for a cable address recorded with the company, neglected to look in the telephone directory or consult the record of cable addresses, but consulted merely the city directory, and delivered the message at the home address appearing therein, thereby delaying the delivery of the message beyond business hours, the company was not guilty of gross negligence in delaying the delivery of the message.—*M. M. Stone & Co. v. Postal Tel. Cable Co.* Supreme Court of Rhode Island. 87 Atl. 319.

Warranty of Seed.—A sale of seed by name raises an implied warranty that it is true to name; the fact that the buyer inspected the seed before purchasing being immaterial, when its character cannot ordinarily be ascertained by any reasonable inspection.—*Grafton-Stamps Drug Co. v. Williams*. Supreme Court of Mississippi. 62 South. 273.

Filing Claim Against Carrier.—Where the evidence showed that plaintiff instructed a commission company to make claim for damages for injury to live stock occasioned by delay in shipment, and a letter from the claim agent of the railroad company to the commission company, written some weeks after the shipment was made, showed that the claim was made and that he had investigated it, and said nothing about the claim having been filed too late, and no proof was offered by the company showing or tending to show that it was not filed in time, the presumption that it was filed within the time prescribed by the contract is a condition precedent to recovery.—*St. Louis & S. F. R. Co. v. Walker*. Supreme Court of Oklahoma. 133 Pac. 185.

Transfer of B/L.—In an action by the seller of a quantity of wheat to reclaim it against subvendees because of the failure of the buyer to pay for it, held, that a finding against the plaintiff is supported by evidence tending to show the following facts: The plaintiff acquired title to the wheat while in the hands of the railroad company by paying a draft to which the B/L was attached; it then made a bargain for its sale, surrendered the B/L to the railroad company, and directed the cars to be set out at the elevator of the buyer; at the same time it drew upon the buyer for the price thru a bank in another city, so that two days' time would necessarily pass before the presentation of the draft; the buyer rebilled the wheat and sold it by transfer of the B/L.—*Kemper Grain Co. v. Harbours*. Supreme Court of Kansas. 133 Pac. 565.

Margin Certificates.—A bank which had issued margin certificates to a depositor, evidencing deposits made by him to secure the performance of his dealings on the Chicago Board of Trade, did not receive a preference forbidden by the bankrupt act of July 1, 1898 (30 Stat. at L. 544, chap. 541, U. S. Comp. Stat. 1901, p. 3418), § 60 a and b, where such depositor, being in financial difficulties, afterwards transferred his open trades to a corporation which agreed to and did carry them out, substituting its own securities for his, and turning over the margin certificates thus secured to the bank, which, with reasonable cause to believe the depositor insolvent, and within four months of the proceedings in bankruptcy against him, applied the amount of the deposits to his indebtedness to the bank.—*Continental & Commercial Trust & Savings Bank v. Chicago Title & Trust Co.* Trustee in Bankruptcy of Earl H. Prince. Supreme Court of the United States. 33 Sup. Ct. Rep. 829.

Evidence of Weight of Grain.—In an action for the price of wheat sold, where there was a dispute as to whether seven or eight loads were sold and delivered, evidence that all of plaintiff's wheat, except one load, was put in a bin along with other wheat, that all the wheat in such bin was put into a railroad car, sealed up, and shipped, and evidence as to the weight and contents of such other wheat, the names of the persons from whom it was purchased, the date of purchases, and the weight and amount purchased from each person, and the total weight and amount of wheat shipped in the car, that the car was unsealed and unloaded by a witness and the wheat weighed by him, that the weight tallied with the wheat that was in the bin purchased of the various persons named, including all of plaintiff's wheat, except one load, and that therefore, if there had been the additional load claimed by plaintiffs, there would have been a shortage in the weight between that shipped and that received, should have been admitted as having some bearing on the amount of wheat delivered by plaintiffs.—*Knapp v. Hubbard*. Supreme Court of Michigan. 142 N. W. 571.

Arbitration.—Partiality, interest, or relationship of an arbitrator with reference to the other parties to the arbitration is not ground for setting aside the award, where the arbitrator is selected by the parties with full knowledge of such facts.—*State ex rel. Noble v. Bowlby*. Supreme Court of Washington. 132 Pac. 723.

Carrier's Discrimination Between Localities.—The proviso in Interstate Commerce Act, Feb. 4, 1887, c. 104, § 1, 24 Stat. 379 (U. S. Comp. St. 1901, p. 3154), that the act shall not apply to transportation wholly within one state, is a mere disclaimer of any intention on the part of Congress to exceed its constitutional power, and was not designed to limit the provisions that are within the power which Congress could exercise, and the proviso does not prevent the application of the third section in prohibiting undue discrimination between localities to cases where such discrimination is brought about by state action, requiring a reduction in intrastate rates.—*Texas & P. Ry. Co. v. United States*. U. S. Commerce Court. 205 Fed. 380.

Customers' Names a Trade Secret.—Civ. Code, § 1985, provides that everything which an employe acquires by virtue of his employment, except his compensation, belongs to his employer. Plaintiff, a laundry company, employed defendant as a driver, and furnished him a list of customers thereon. It was his duty to revise the list by notice of changes of address and of the address of new customers and to furnish plaintiff with a complete list of customers on that route, and agreed that he would not solicit work from any of plaintiff's customers, either for himself or as an employee of any other person or corporation. Defendant left plaintiff's employment, and solicited laundry work from its customers along such route, and disclosed the list in his possession to his new employer, and took away the patronage of many of plaintiff's former customers. Held, that the list, tho in part made by defendant, was plaintiff's absolute property; that defendant's agency was one of trust and secrets and communications; and that, in confidence; that the knowledge he so acquired fell within the meaning of "trade dependent of the express contract, defendant's disclosure of such trade secrets and confidential communications would be enjoined.—*Empire Steam Laundry v. Lozier*. Supreme Court of California. 130 Pac. 1181.

Private Weighmasters.—Rev. Civ. St. 1911, art. 7828, providing for the appointment by the Governor of public weighers in cities receiving 100,000 bales of cotton annually and for the appointment and election of public weighers for each justice precinct which was first enacted in 1883, omitted the proviso that nothing should be construed so as to prevent any other person from weighing cotton, wool, or hides when requested to do so by the owners. Pen. Code 1911, art. 996, which is a re-enactment of section 7 of the act of 1879 (Acts 16th Leg. c. 108), declares that it shall not be lawful for any person other than the regularly appointed weigher or his deputy to weigh any cotton, wool, sugar, or hides required to be weighed, sold, or offered for sale in any city having a public weigher. Held, that as section 1 of the act of 1879 provided only for the appointment of public weighers in certain designated cities, which by act of 1883 were fixed as cities receiving 100,000 bales of cotton annually, and as Rev. Civ. St. 1911, art. 7830, prescribing the duties for public weighers, imposed the same duties upon private weighers, and as article 7833 declares that it shall not be lawful for any factor, commission merchant, or other person to employ any other than a public weigher or his deputy, a public weigher elected in a justice precinct cannot enjoin a private weigher from carrying on his business; the purpose of the restrictive statute being to require cotton factors and persons receiving much merchandise, as brokers, to patronize public weighers so as to avoid fraud, and the penal provisions, in view of their enactment, only applying to that purpose.—*Paschal v. Inman*. Supreme Court of Texas. 157 S. W. 1158.

GOVERNMENT HAY DRYING Plant.

A plant to dry hay artificially will be built in Southeastern Missouri by the United States government if Congress approves the recommendations of the Department of Agriculture, to be submitted during the December session.

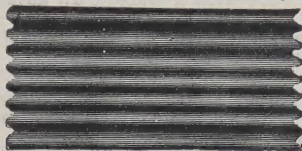
By drying hay artificially, a great waste is avoided, and the product is superior to sun-cured hay. It is estimated that under present methods of curing, from 35% to 40% of the hay is spoiled. W. J. Spillman, chief of the Office of Farm Management, who has made a study of the matter, asserts that the only question about the process is whether it can be carried on profitably or not. Several plants have been started but failed to make money. However, a Florida man is said to be drying hay at a cost of \$3 per ton, including baling. Inasmuch as it costs \$1.50 per ton to bale hay on the farms, the cost of drying is only \$1.50, which is considered very low. The hay saved, which would under old methods be wasted, more than pays for this extra expense.

This process is a boon to the alfalfa meal trade, as the hay can be dried shortly after it is cut, thus avoiding the usual waste; and it can be ground up as soon as dried, because it is very brittle.

Considerable difficulty is experienced by alfalfa millers to avoid grinding spoiled hay with the good. With artificial drying this difficulty would disappear.

In order to be a commercial success, the hay drying plant must have an abundant supply of cheap fuel.

GALVANIZED CORRUGATED
Steel Siding, Roofing, Fireproof Window Frames, Sashes, &c



THE SYKES COMPANY, Chicago, Ill.
Sheet Metal Contractors, Makers of Fireproof Windows. Write them if you are in the market now or if you expect to be in the future. Contracts taken anywhere in the United States.

Tri-State Mutual Grain Dealers Fire Insurance Co.

Luverne, Minn.

Write for our statement. E. H. Moreland, Secretary

Workmen's Compensation or Employer Liability Insurance

Protects you from

liability imposed upon you by the Illinois Workmen's Compensation Law. Write for rates and information.

BALSLEY BROS.

GENERAL INSURANCE AGENCY,
SPRINGFIELD, ILLINOIS

Lightning causes nearly 30% of fires of Grain Elevators and Mills. Are you properly protected? If not, write us today.

MUNSON'S FAMOUS LIGHTNING CONDUCTORS

Unequalled by any make, will last a lifetime, pays for itself by earning you a lower insurance rate. Tried and true, 65 years without a failure.

MUNSON LIGHTNING CONDUCTOR CO., 146 Delaware St., Indianapolis, Ind.

Shinn Lightning Rods

We will protect your elevator from lightning damage — \$75,000.00 Surety Bond backs my word. Your money back if building burns. I send an expert State inspector to examine each job. You get protection from Shinn.

Send for free catalog.

W. C. SHINN

Factory, LINCOLN, NEB.



INCORPORATED 1877

The Millers' Mutual Fire Insurance Association of Illinois

ALTON, ILLINOIS

Insures Elevators, Mills, Grain Warehouses and Contents of same at Cost.

Insurance in Force \$18,433,615.45. Cash surplus \$473,253.91.

GEO. POSTEL, President G. A. MCKINNEY, Secretary

HOME OFFICE: Alton, Illinois.

WESTERN DEPARTMENT: Mr. Rollie Watson, Mgr., 402 Sedgwick Bldg., WICHITA, KANSAS.

AJAX

WHEN $\frac{1}{3}$ of the fires are caused by lightning

it behooves $\frac{3}{3}$ of the elevator operators to equip their plants with the Surest and Best System of Lightning Protection — the

AJAX SYSTEM

Every summer storm is another argument why you should investigate the AJAX today. Write

Ajax Conductor & Mfg. Co.
420 N. Sangamon St., CHICAGO, ILL.

YOUR INSURANCE

is an important part of your business. We make a specialty of mills and elevators and if you need insurance, either permanent or short-term, wire or write.

Our service is worth more to you than the other man's policy.

MILLERS NATIONAL INSURANCE CO.,
Chicago, Ill.

WESTERN MILLERS MUTUAL FIRE INSURANCE CO.,
Kansas City, Mo.

OHIO MILLERS MUTUAL FIRE INSURANCE CO.,
Canton, Ohio.

PENNSYLVANIA MILLERS MUTUAL FIRE INSURANCE CO.,
Wilkes Barre, Pa.

MILL OWNERS MUTUAL FIRE INSURANCE CO.
Des Moines, Iowa.

THE MILLERS MUTUAL FIRE INSURANCE CO.,
Harrisburg, Pa.

TEXAS MILLERS MUTUAL FIRE INSURANCE CO.,
Ft. Worth, Texas.

MICHIGAN MILLERS MUTUAL FIRE INSURANCE CO.,
Lansing, Mich.

GRAIN DEALERS NATIONAL MUTUAL FIRE INSURANCE CO.,
Indianapolis, Ind.

Patents Granted

Corn Drying Rack. No. 1,069,913. (See cut.) Abraham Van Roekel, Orange City, Ia. A frame mounted on legs of sheet metal carries a lattice-work of wire fastened over the open sides of the frame for the purpose of supporting ears of corn.

Bag Filling Machine. No. 1,069,848. (See cut.) Benjamin F. Brown, Fitchburg, Mass. A guide box is mounted to move longitudinally upon a frame and is operated by a follower pressing upon the guide box, the pressure being under control of the operator.

Sack Holder. No. 1,070,847. (See cut.) Gustav L. Schoettler, St. Genevieve, Mo. This holder consists of a hanger having a slot in it, a pair of arms pivoted at end of hanger and made in two parts pivoted together, means at the end of the arms for engaging a sack, and links pivoted to the arms and sliding thru slot in hanger for holding the arms in alignment.

Grain Blender. No. 1,069,771. (See cut.) Kennedy Dougan, Minneapolis, Minn. Upon each end of a horizontal floating lever is provided a feeding mechanism. A pair of opposed feed governing devices, together with a lever balanced upon a floating pivot for transmitting movement of one of the feed governors to the other, regulate and blend the streams of grain.

Bag Filling Machine. No. 1,070,388. (See cut.) Adelmer M. Bates, Cleveland, O. This machine consists of a flexible funnel supported above and below and so arranged that one of the supports may be moved for alternately collapsing and stretching the sides of the funnel to vary its cross-sectional area. Means are also provided for collapsing and stretching the sides of the bag.

Car Door Sealing Device. No. 1,070,057. (See cut.) John F. O'Connor, Chicago, Ill. A car seal comprising a perforated casing having a hollow portion and a flange, together with a slot thru which a breakable tablet may be inserted, a pin operating thru the perforations provided with a shoulder on its forward face adapted to close the slot when pin is projected, and a pawl hung within the casing having a boss. The pin is provided with a shoulder so as to engage the pawl when the pin is retracted and prevented its removal from the casing.

Grain Door. No. 1,069,672. (See cut.) Richard W. Burnett, Montreal, Que. The door is hinged to the car door frame and mounted so as to move vertically. A locking device holds the door closed when down and releases it when raised.

Portable Scale-Tester. No. 1,070,477. (See cut.) Thomas Jacobs, South Rockwood, Mich. This device is mounted on a plate adapted to be placed over an opening in the scale platform, and consists of a vertical bracket having a bifurcated end, a scale beam with a weight, an adjustable bracket carried on the scale beam, a rod connected by a pivot to this bracket, and a hook-shaped rod.

Seed Separator. No. 1,070,350. (See cut.) Percy E. Long and William L. Schwarz, La Crosse, Wis. This gravity separator consists of an inclined table having sections alternately fixed and traveling, the traveling sections consisting of endless belts, lying in parallel planes and have less inclination than the fixed sections. Deflectors are provided on the fixed plates at the ends next to the delivery ends of the belts.

Link Belt Conveyor. No. 1,069,901. (See cut.) William F. Peterson, Chicago, Ill. This conveyor consists of parallel chains carrying studs provided with pendant hangers, together with a number of brackets and shelves. Equidistant studs project from the links and support hangers having T-shaped recesses in their opposing faces that are open at their upper edges. T-shaped lugs projecting from the brackets seat in the recesses of these hangers.

Imports and Exports of Rice.

Imports of rice, rice flour, rice meal and broken rice during the twelve months prior to July 1 aggregated 222,103,547 lbs., compared with 190,063,331 lbs. imported in the corresponding period of 1911-1912. Exports included 24,801,280 lbs. of rice to July 1, compared with 26,797,537 lbs. exported in the corresponding period of 1911-1912. Of foreign rice, rice flour, rice meal, and broken rice we re-exported 12,681,157 lbs. during the twelve months prior to July 1, compared with 10,410,424 lbs. re-exported in the corresponding period of 1911-1912, as reported by O. P. Austin, chief of the Bureau of Statistics.

We find the Grain Dealers Journal very helpful and would not like to be without it.—William Wagner, mgr. The Jerome Mfg. & Elvtr. Co., Jerome, Idaho.

GASOLINE ENGINE VALVES Need Care.

One of the most important factors in the successful working of a gasoline engine is the operation of the valves. Many operators have wasted hours trying to correct imaginary spark and carburetor troubles, when the real cause of the difficulty was in the valves. Usually the valves are the most neglected part of the engine, because they are inaccessible and dirty. Keeping them in good condition means dirty hands and a lot of work, and most operators pay no attention to the valves until the engine stalls.

Inasmuch as the valves are exposed to a great deal of dirt and grit, they are apt to become badly worn, and this wearing is almost certain to affect the operation of the engine. For instance, if a cam is worn at the point where the lift on the valves begins, the valve will be slow in opening. If it is an exhaust valve, the engine will not be able to get rid of its exhaust pressure promptly; if it is an inlet valve, the engine will not get a full charge of gas. In either event, a great loss of power results.

The cams, rollers, and the gear that moves the cams must be kept carefully oiled and cleaned, as the roller must roll over the cam and not slide. If not kept in proper condition, the cam roller will get stuck on its spindle and will quickly wear flat.

The valve stem, which is in almost constant motion, usually wears severely where it passes thru the sleeve guide. If the stem and sleeve are badly worn, the valve seat will get out of true, making a leaky valve. The seat itself is subjected to severe heat and shud be kept as cool as possible. It shud be kept clean of carbon and oil and all corroded spots or irregularities ground out as soon as discovered. The stem springs shud also be kept always at the proper tension.

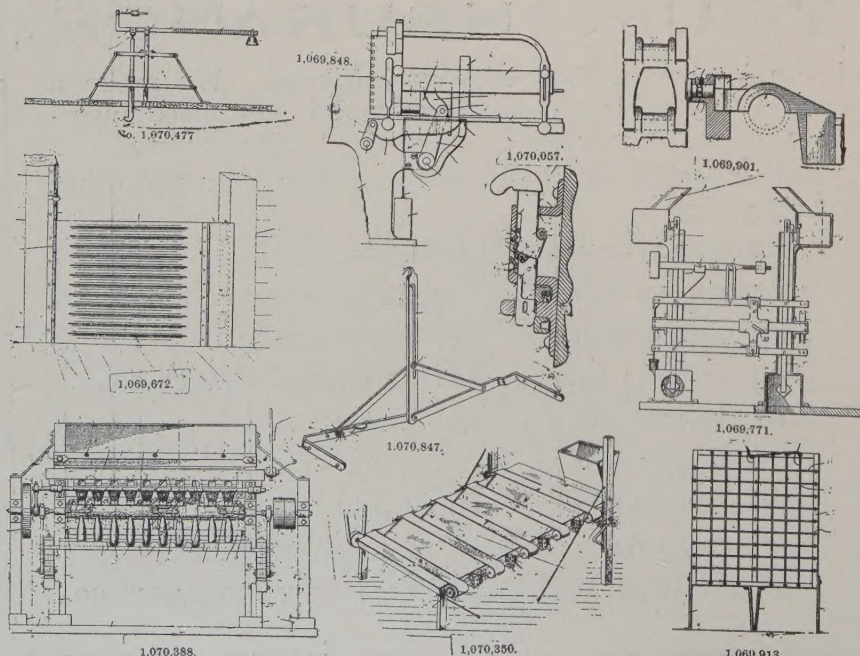
Faulty action on the part of the valves can only result in loss of power and irregular running. The valves shud be thoroly examined at least once a month. They shud be kept clean, well oiled and properly adjusted. Many operators think that just so long as the engine keeps on running, nothing is gained by "fussing" with it. They wait until it stalls before doing anything on it. The proper method is to keep the engine always in perfect running order. The result is full power and continuous operation.

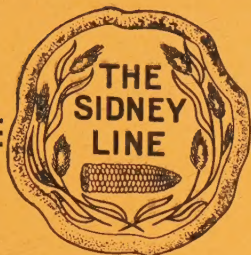
Exports of Breadstuffs.

Exports of breadstuffs during the seven months prior to Aug. 1 included 46,071,957 bus. of wheat, 6,495,793 bbls. of wheat flour, 41,838,417 bus. of corn, 4,762,370 bus. of oats, 1,627,942 bus. of rye, and 10,030,114 bus. of barley, compared with 6,212,934 bus. of wheat, 5,500,995 bbls. of wheat flour, 23,572,126 bus. of corn, 1,237,908 bus. of oats, 1,494 bus. of rye, and 196,399 bus. of barley during the seven months ending Aug. 1, 1912.

The sudden increase in the exports of wheat is particularly noteworthy. In July of this year, 9,397,745 bus. of wheat was exported, compared with 523,385 bus. in July, 1912.

The total value of breadstuffs exported during the seven months ending Aug. 1 was \$110,320,184, compared with \$51,331,129 last year. These figures are taken from report of O. P. Austin of the Bureau of Statistics.





*"Not perfect,—
but nearest to it."*



"Let me tell you

one thing about the **SIDNEY** shellers,—there is not one in operation today that is not rendering perfect satisfaction."



"Don't you see, then, what the installation of a **SIDNEY** means to every grain elevator operator? It means a quicker, easier, better and more profitable handling and shelling of corn."



"Put that sheller of yours through a cross-examination today. Is it doing good work? Are you running chances of a breakdown every time you use it? Will it last another season? Is the capacity large enough to handle a continuous dumping of wagons? Is it rendering perfect satisfaction?"



"Unless your sheller satisfactorily answers everyone of these questions, it is time you too investigated the **SIDNEY** shellers."

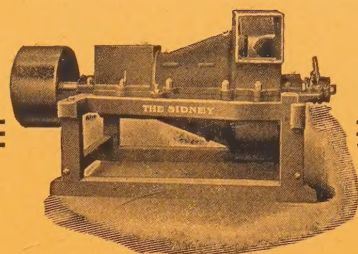
Every man ever investigating the **SIDNEY LINE** has profited by it, and we will gladly show you when, where, how and why you should install the **SIDNEY**.

Our expert elevator engineers are at your service upon request. While you're at it, write and mail that card now.

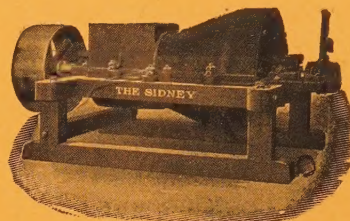
The Philip Smith Mfg. Co.

Main Avenue and Shelby Street
SIDNEY, OHIO

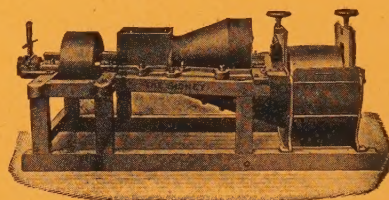
Warehouses: Barnard Machinery Co., Enterprise, Kans.
Orr Bros. Supply Co., Cedar Rapids, Ia.



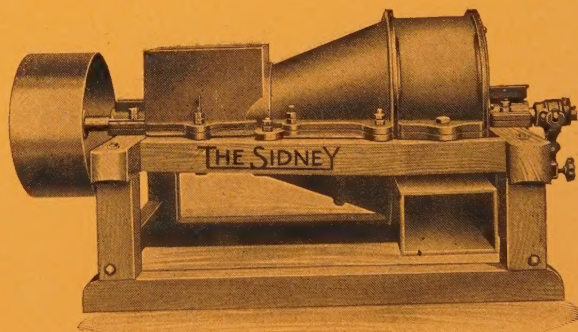
Sidney Fan Sheller



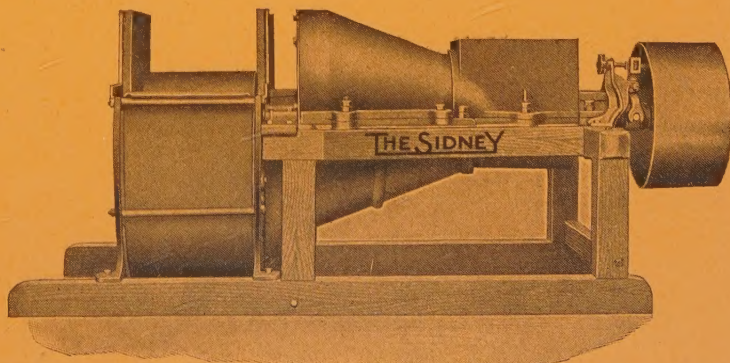
Sidney Regular Sheller



Sidney Combined Sheller and Boot
With Take-Up Boxes



Sidney Pitless Sheller



Sidney Combined Sheller and Boot Without Take-Ups

Starting the Annual Repair of Your Elevator?

**STOP! DON'T PUT A KERNEL
OF NEW GRAIN INTO IT UNTIL
YOU HAVE MADE IT SPOIL-PROOF**

with

WATER CERESIT PROOFING

TRADE

MARF

Paste which has "All of the good points and none of the bad" for Elevators, Elevator boots, scale pits, grain tanks, engine rooms, concrete flooring, roofing, tunnels, dams, basements, sub-basements, etc. **Right now**—before the rush of storing the fresh new wheat in your concrete elevator starts—is the one and only time you can make your repairs. It's risky to "try to get along somehow until next year." Can you keep grain stored in your elevator 10 months to a year in perfect condition? Is your elevator **spoil-proof**? Can you always keep the boot as dry as a bone? You know if the boot is damp the grain naturally becomes wet when it is dumped into the boot and when wet grain is carried up in the buckets it clogs up the conveyor. Further, without the use of Waterproofing the engine room is in danger of becoming flooded. Result—Engine is incapacitated. Delay and damage resulting would more than pay you for the cost for waterproofing your elevator from pit to roof. Ceresit Waterproofing solves every concrete construction problem, because it is

1. **Moisture Proof.** Absolutely repels water.
2. **Pressure Proof.** Withstands any amount of hydrostatic pressure.
3. **Disintegration Proof.** Makes concrete immune from alkali, frost, etc.

4. **Permeates.** Becomes **Integral Part** of concrete—present everywhere in same proportion.
5. **Retains Original Strength of Concrete.**
6. **Absolutely Odorless.**

7. **No Discoloration** whatever.

8. **Most Economical.** Because it requires no Expert Labor.

Factories—Chicago; Unna, Westphalia, Germany; London, Paris, Vienna, St. Petersburg, Warsaw.

Dept. T, CERESIT WATERPROOFING COMPANY

446 Commercial National Bank Bldg., Chicago, Illinois

Branches

1133 Broadway, New York City, N. Y.
1216 Chestnut St., Philadelphia.

Send for Catalog.

Ceresit, winner of 8 highest awards at principal World's Fairs, has just won another Grand Prix at the 1913 Belgium show at Brussels

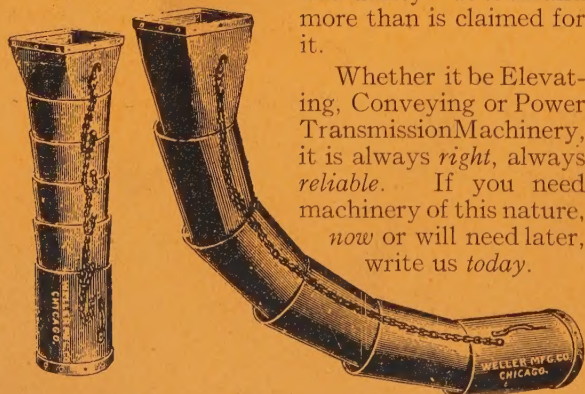
WELLER-MADE



Weller Machinery

embodies the very best in quality, construction and utility. It is all and more than is claimed for it.

Whether it be Elevating, Conveying or Power Transmission Machinery, it is always *right*, always *reliable*. If you need machinery of this nature, *now* or will need later, write us *today*.



WELLER Spiral, Belt or Apron Conveyors, Wagon Dumps, Scoops, Buckets, etc. or the WELLER Power Transmission Machinery are supreme for their specific use.

Weller Mfg., Co., Chicago
New York Office, 50 Church St.

The One Machine--

which by gathering your losses, save you money.

The Day Dust Collector.



Superior to all.
Storm and spark proof.
More and better work.
"Day-ly" efficiency.

Dirt and Dust

from your grain is an unavoidable loss, but dirt and dust about your elevator is a voidable loss. The loss of life, money and business can be avoided through the installation of a **Day Dust Collector.**

Write to Day today.

THE DAY COMPANY
1122 Yale Place, Minneapolis, Minn.